Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

List of ICT- enabled tools including e-resources, Pedagogical Initiatives, and Teaching-aids used for effective teaching-learning process

The institute is permanently affiliated to the Visvesvaraya Technological University (VTU), Belgaum. The VTU'sBoard of Studies (BoS) has published the curriculum (2021 and 2022 Scheme of Studies), which is revised in line with the NEP-2020 of all courses in its website link: https://vtu.ac.in/en/b-e-scheme-syllabus/. Each syllabus of courses contains, 5 modules, text books, reference books, evaluation guidelines, pedagogies such as e-resources, video lectures, supporting experiments, field visits etc., along with these, the 4-5 course outcomes (COs) are also suggested. The awareness to access the VTU curriculum published and its implementation guidelines have been educated to the students during their "Induction Program" and also in the starting introductory classes. The faculty members are also referring these contents to plan teaching-learning lessons/activities/pedagogies and to define the 5 course outcomes (COs) for each module for mapping with POs and assessment of attainment purpose. The following are the VTU weblinks of syllabus, where e-resources are mentioned, Pedagogies and other ICT tools including online resources for effective teaching and learning process. All the class rooms are well connected with 104 Mbps internet and LCD projector to disseminate e-resources in the regular classes. All teachers are utilizing these facilities based on their syllabus content regularly.

| S.N. | Online resources | Web links |
|------|----------------------------------|--|
| 1 | NPTEL Courses on VTU Website | https://vtu.ac.in/en/online-course-jan-june-2023/ |
| 2 | VTU Model Question papers | https://vtu.ac.in/en/model-question-paper-b-e- b-tech-b-arch/ |
| 3 | VTU Study materials | https://vtu.ac.in/en/study-material/ |
| 4 | VTU Board of Studies Proceedings | https://vtu.ac.in/en/board-of-studies- proceedings/ |
| 5 | VTU Academic Calendar | https://vtu.ac.in/academic-calendar/ |
| 6 | VTU NISP | https://vtu.ac.in/en/nisp-2/ |
| 7 | NPTEL Courses on VTU Website | https://vtu.ac.in/en/nptel-online-courses/ |
| 8 | VTU OPAC Library | http://library.vtu.ac.in/ |

1000 pp

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| 1 | VTU Board of Studies (BoS) recommended e-Resources which are mentioned in the Syllabus (2021 and 2022 Schome of Study) | | | | |
|----|--|----------------------|--|--|--|
| (V | Veh link | s. Video Lectures. 1 | and 2022 Scheme of Study) MOOCs, e-Shikhsana Program, NPTEL, EDUSAT, YouTube, Vlab etc.) | | |
| S | Cour | VTU Syllabus | Topic with e-Resource | | |
| | se | link | | | |
| N | | where e- | | | |
| • | | resources are | | | |
| | | mentioned | | | |
| 1 | Math | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 | | |
| | emati | df/2022syll/BMA | http://www.class-central.com/subject/math(MOOCs) | | |
| | cs-I | <u>TS101.pdf</u> | http://academicearth.org/ | | |
| | for | | VTUe-Shikshana Programand VTU EDUSAT Program | | |
| | CSE I | | | | |
| | Year | | | | |
| 2 | Physi | https://vtu.ac.in/p | Laser: | | |
| | cs for | df/2022syll/BPH | https://www.youtube.com/watch?v=WgzynezPiyc | | |
| | CSE I | YS102.pdf | Superconductivity | | |
| | Year | | https://www.youtube.com/watch?v=MT5Xl5ppn48 | | |
| | | | Optical Fiber: | | |
| | | | https://www.youtube.com/watch?v=N_kA8EpCUQo Quantum Mechanics | | |
| | | | https://www.youtube.com/watch?v=p7bzE1E5PMY&t=136s | | |
| | | | Quantum Computing: https://www.youtube.com/watch?v=jHoEjvuPoB8 | | |
| | | | Quantum Computing: https://www.youtube.com/watch?v=ZuvCUU2jD30 | | |
| | | | Physics of Animation: https://www.youtube.com/watch?v=kj1kaA_8Fu4 | | |
| | | | Statistical Physics Simulation: https://phet.colorado.edu/sims/html/plinko- | | |
| | | | probability/latest/plinkoprobability_en. | | |
| | | | html NPTEL Superconductivity: | | |
| | | | https://archive.nptel.ac.in/courses/115/103/115103108/ | | |
| | | | NPTEL Quantum | | |
| | | | Computing: https://archive.nptel.ac.in/courses/115/101/115101092 | | |
| | | | Virtual LAB: | | |
| | | | https://www.vlab.co.in/participating-institute-amrita-vishwa-vidyapeetham | | |
| | | | Virtual | | |
| | | | LAB: https://vlab.amrita.edu/index.php?sub=1&brch=189∼=343&cnt=1 | | |
| 3 | Chem | https://vtu.ac.in/p | http://libgen.rs/ | | |
| | istry | df/2022syll/BCH | https://nptel.ac.in/downloads/122101001/ | | |
| | for | ES102.pdf | https://nptel.ac.in/courses/104/103/104103019/ | | |
| | CSE I | | https://ndl.iitkgp.ac.in/ | | |
| | Year | | https://www.youtube.com/watch?v=faESCxAWR9khttps://www.youtube.co | | |
| | | | m/watch?v=TBqXMWaxZYM&list=PLyhmwFtznRhuz8L1bb3X9IbHrDM | | |
| | | | jHWWh https://www.voutube.com/wotch?v=i5Hml6KN4TI | | |
| | | | https://www.youtube.com/watch?v=j5Hml6KN4TI https://www.youtube.com/watch?v=X9GHBdyYcyo | | |
| | | | https://www.youtube.com/watch?v=1xWBPZnEJk8 | | |
| | | | https://www.youtube.com/watch?v=1xwBFZhEJKo https://www.youtube.com/watch?v=wRAo-M8xBHM | | |
| | | | ActivityBasedLearning | | |
| | | | (SuggestedActivitiesinClass)/PracticalBasedlearning | | |
| | | | https://www.vlab.co.in/broad-area-chemical-sciences | | |
| | l | | | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics
Pedagogy &
e-Resources

| | | | https://domonstrations.vvolfusur.com/tonics.nhm |
|----------|----------|---------------------|--|
| | | | https://demonstrations.wolfram.com/topics.php |
| _ | | • | https://interestingengineering.com/science |
| 4 | C- | https://vtu.ac.in/p | 1.https://elearning.vtu.ac.in/econtent/courses/video/BS/15PCD23html |
| | Progr | df/2022syll/BPO | 2. https://nptel.ac.in/courses/106/105/106105171/ |
| | ammi | <u>PS103.pdf</u> | MOOC courses can be adopted for more clarity in understanding the topics |
| | ng for | | and verities of problem solving methods. |
| | CSE I | | https://tinyurl.com/4xmrexre |
| | Year | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | learning |
| | | | • Quizzes |
| | | | Assignments |
| | | | • Seminars |
| | Math | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| | emati | df/2022syll/BMA | http://www.class-central.com/subject/math(MOOCs) |
| | cs-I | TE101.pdf | http://academicearth.org/ |
| | for | | VTU e-Shikshana Program |
| | EEE I | | VTU EDUSAT Program Activity Based Learning (Suggested Activities in |
| | Year | | Class)/ Practical Based learning |
| | | | • Quizzes |
| | | | • Assignments |
| | | | • Seminar |
| | Physi | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): Laser: |
| | cs for | df/2022syll/BPH | https://www.britannica.com/technology/laser,k |
| | EEE I | YE102.pdf | Laser: |
| | Year | <u>11102.par</u> | https://nptel.ac.in/courses/115/102/115102124/ |
| | 1 0012 | | Quantummechanics: |
| | | | https://nptel.ac.in/courses/115/104/115104096/ |
| | | | Physics: |
| | | | http://hyperphysics.phy-astr.gsu.edu/hbase/hframe. |
| | | | html Numerical Aperture of fiber: |
| | | | https://bop-iitk.vlabs.ac.in/exp/numerical-aperture-measurement 16-2-2023 |
| | | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | learning: |
| | | | http://nptel.ac.in |
| | | | https://swayam.gov.in |
| | | | https://www.vlab.co.in/participating-institute-amrita-vishwa- |
| | | | vidyapeethamhttps://vlab.amrita.edu/index.php?sub=1&brch=189∼=34 |
| | | | 3&cnt=1 |
| | | | https://virtuallabs.merlot.org/vl_physics.html |
| | | | https://phet.colorado.edu |
| | | | https://www.myphysicslab.com |
| | Chem | https://vtu.ac.in/p | WeblinksandVideoLectures(e-Resources): |
| | istry | df/2022syll/BCH | http://libgen.rs/ |
| | for | EE102.pdf | https://nptel.ac.in/downloads/122101001/ |
| | EEE I | | https://nptel.ac.in/courses/104/103/104103019/ |
| | Year | | https://ndl.iitkgp.ac.in/ |
| | | | https://www.youtube.com/watch?v=faESCxAWR9khttps://www.youtube.co |
| | | | m/watch?v=TBqXMWaxZYM&list=PLyhmwFtznRhuz8L1bb3X9IbHrDM |
| <u> </u> | <u> </u> | I | The state of the s |

60000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics
Pedagogy &
e-Resources

| | 1 | | |
|---|-------------|---------------------|--|
| | | | <u>jHWWh</u> |
| | | | https://www.youtube.com/watch?v=j5Hml6KN4TI |
| | | | https://www.youtube.com/watch?v=X9GHBdyYcyo |
| | | | https://www.youtube.com/watch?v=1xWBPZnEJk8 |
| | | | https://www.youtube.com/watch?v=wRAo-M8xBHM |
| | | | ActivityBasedLearning(SuggestedActivitiesinClass)/PracticalBased |
| | | | Learning: |
| | | | https://www.vlab.co.in/broad-area-chemical-sciences |
| | | | https://demonstrations.wolfram.com/topics.php |
| | | | https://interestingengineering.com/science |
| | Elem | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): www.nptel.ac.in |
| | ents | df/2022syll/BEE | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | of | • | |
| | | <u>E103.pdf</u> | learning VI |
| | Electr | | Wherever required, faculty shall demonstrate the concepts through |
| | ical | | laboratory experiments. |
| | Engin | | |
| | eerin | | |
| | g I | | |
| | Year | | |
| | Basic | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | s of | df/2022syll/BBE | https://nptel.ac.in/courses/122106025 |
| | Electr | E103.pdf | https://nptel.ac.in/courses/108105132 |
| | onics | | https://nptel.ac.in/courses/117104072 |
| | for I | | |
| | year | | |
| | Math | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | emati | df/2022syll/BMA | http://nptel.ac.in/courses.php?disciplineID=111 |
| | cs for | <u>TM101.pdf</u> | http://www.class-central.com/subject/math(MOOCs) |
| | Mech | <u>1111101.pu1</u> | http://academicearth.org/ |
| | | | |
| | anical | | VTU e-Shikshana Program |
| | Engin | | VTU EDUSAT Program Activity-Based Learning (Suggested Activities in |
| | eerin | | Class)/Practical-Based Learning: |
| | g I | | • Quizzes |
| | year | | Assignments |
| | | | • Seminar |
| | Math | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | emati | df/2022syll/BMA | http://nptel.ac.in/courses.php?disciplineID=111 |
| | cs-I | T201.pdf | http://www.class-central.com/subject/math(MOOCs) |
| | for | | http://academicearth.org/ |
| | Mech | | VTU e-Shikshana Programand VTU EDUSAT Program Activity-Based |
| | anical | | Learning (Suggested Activities in Class)/ |
| | | | |
| | Engin eerin | | Practical-Based Learning : |
| | | | • Quizzes |
| | g I | | Assignments |
| | Year | | Seminar |
| | Physi | https://vtu.ac.in/p | Simple Harmonic motion: |
| | cs for | df/2022syll/BPH | https://www.youtube.com/watch?v=k2FvSzWeVxQ |
| | Mech | YM102.pdf | Shock waves: |
| ь | | | *** |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| anical | https://physics.info/shock/ |
|--|---|
| Engin | Shock waves and its applications: |
| eerin | https://www.youtube.com/watch?v=tz_3M3v3kxk |
| gI | Stress- strain curves: |
| Year | https://web.mit.edu/course/3/3.11/www/modules/ss.pdf |
| | Stress curves: |
| | https://www.youtube.com/watch?v=f08Y39UiC-o |
| | Fracture in materials: |
| | https://www.youtube.com/watch?v=x47nky4MbK8 |
| | Thermo-electricity: |
| | |
| | https://www.youtube.com/watch?v=2w7NBuu5w9c&list=PLtkeUZItwHK5y6qy1G |
| | Fxa4Z4Rc mzUaaz6 |
| | Thermoelectric generator and coolers: |
| | https://www.youtube.com/watch?v=NruYdb31xk8 |
| | Cryogenics: |
| | https://cevgroup.org/cryogenics-basics-applications/ |
| | Liquefaction of gases: |
| | https://www.youtube.com/watch?v=aMelwOsGpIs |
| | Virtual lab: |
| | https://www.vlab.co.in/participating-institute-amrita-vishwa-vidyapeetham |
| | Material characterization: |
| | https://onlinecourses.nptel.ac.in/noc20_mm14/preview |
| | https://www.encyclopedia.com/science-and- |
| | technology/physics/physics/cryogenicshttps://www.usna.edu/NAOE/_files/ |
| | documents/Courses/EN380/Course_Notes/Ch10_Deformation.pdf 16-2- |
| | <u>2023 4</u> |
| | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | Learning: |
| | http://nptel.ac.in |
| | https://swayam.gov.in |
| | https://virtuallabs.merlot.org/vl_physics.html |
| | https://phet.colorado.edu |
| | https://www.myphysicslab.com |
| Chem https://vtu.ac.in/p | http://libgen.rs/ |
| istry df/2022syll/BCH | https://nptel.ac.in/downloads/122101001/ |
| for <u>EM102.pdf</u> | https://nptel.ac.in/courses/104/103/104103019/ |
| Mech | https://ndl.iitkgp.ac.in/ |
| anical | https://www.youtube.com/watch?v=faESCxAWR9khttps://www.youtube.co |
| Engin | m/watch?v=TBqXMWaxZYM&list=PLyhmwFtznRhuz8L1bb3X9IbHrDM |
| eerin | iHWWh |
| gI | https://www.youtube.com/watch?v=j5Hml6KN4TI |
| Year | https://www.youtube.com/watch?v=X9GHBdyYcyo |
| | https://www.youtube.com/watch?v=1xWBPZnEJk8 |
| | https://www.youtube.com/watch?v=wRAo-M8xBHM |
| | ActivityBasedLearning(SuggestedActivitiesinClass)/ |
| | PracticalBasedlearning: |
| | https://www.vlab.co.in/broad-area-chemical-sciences |
| | https://demonstrations.wolfram.com/topics.php |
| | https://interestingengineering.com/science |
| | soshi-591 236. Tag: Hukkeri. Dist: Belagayi. Karnataka. India. |

60000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| T1 | 1 | |
|--------|---------------------|--|
| Elem | https://vtu.ac.in/p | https://www.tlv.com/global/TI/steam-theory/principal-applications-for- |
| ents | df/2022syll/BEM | steam.html |
| of | EM103.pdf | https://www.forbesmarshall.com/Knowledge/SteamPedia/About- |
| Mech | | Steam/Fundamental-Applications-of-Steam |
| anical | | https://rakhoh.com/en/applications-and-advantages-of-steam-in- |
| Engin | | manufacturing- and process-industry/) |
| eerin | | |
| g for | | Videos Makino (For Machine Tool Operation) |
| I year | | Activity Based Learning (Suggested Activities in Class)/ |
| , | | |
| | | Practical Based learning |
| | | 1. Visit to any manufacturing/aero/auto industry or any power plant |
| | | 2. Demonstration of lathe/milling/drilling/CNC operations |
| | | 3. Demonstration of working of IC engine/refrigerator |
| | | 4. Demonstration of metal joining process |
| | | 5. Video demonstration of latest trends in mobility/robotics |
| Innov | https://vtu.ac.in/p | |
| | _ | |
| ation | df/2022syll/BID | 2. https://docs.oracle.com/cd/E11108_02/otn/pdf/. /E11087_01.pdf |
| And | <u>TK108.pdf</u> | 3. www.bizfilings.com |
| Desig | | 4. https://www.mindtools.com/brainstm.html |
| n | | 5. https://www.quicksprout.com/ . /how-to-reverse-engineer-your-competit |
| Think | | 6. www.vertabelo.com/blog/documentation/reverse-engineering |
| ing | | https://support.microsoft.com/en-us/kb/273814 |
| | | 7. https://support.google.com/docs/answer/179740?hl=en |
| | | 8. https://www.youtube.com/watch?v=2mjSDIBaUIM |
| | | thevirtualinstructor.com/foreshortening.html |
| | | https://dschool.stanford.edu//designresources//ModeGuideBOOTCAMP |
| | | 2010L.pdf |
| | | https://dschool.stanford.edu/use-our-methods/ |
| | | https://www.interactiondesign.org/literature/article/5-stages-in-the-design- |
| | | thinking-process |
| | | http://www.creativityatwork.com/design-thinking-strategy-for- |
| | | innovation/498 |
| | | https://www.nngroup.com/articles/design-thinking/ |
| | | https://designthinkingforeducators.com/design-thinking/ |
| | | www.designthinkingformobility.org/wp- |
| | | content//10/NapkinPitch Worksheet.pdf |
| | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | |
| | | learning |
| | | http://dschool.stanford.edu/dgift/ |
| T . | 1 | https://onlinecourses.nptel.ac.in/noc19_mg60/preview |
| Intro | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| ducti | df/2022syll/BES | https://www.youtube.com/watch?v=nGfVTNfNwnk&list=PLOSWwFV98rf |
| on to | CK104A.pdf | <u>KXq2KBphJz95rao7q8PpwThttps://www.youtube.com/watch?v=nkg7VNW9U</u> |
| Civil | | Cc&list=PLOSWwFV98rfKXq2KBphJz95rao7q8PpwT&i ndex=2 |
| Engin | | https://www.youtube.com/watch?v=ljDIIMvxeg&list=PLOSWwFV98rfKXq2KBphJz |
| eerin | | 95rao7q 8PpwT&index=5 |
| g | | https://www.youtube.com/watch?v=VQRcChR9IkU&list=PLOSWwFV98rfKXq2KBp |
| | | hJz95r ao7q8PpwT&index=18 |
| | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics

Pedagogy & e-Resources

| | | | https://www.voutubo.com/watah?w=2VDVtoI |
|----------|--------|---------------------|---|
| | | | https://www.youtube.com/watch?v=3YBXteL- |
| | | | qY4https://www.youtube.com/watch?v=z95UW4wwzSc&list=PLOSWwFV98rfKX |
| | | | q2KBphJz95r ao7q8PpwT&index=10 |
| | | | https://www.youtube.com/watch?v=lheoBL2QaqU&list=PLOSWwFV98rfKXq2KBp |
| | | | hJz95rao 7q8PpwT&index=7 |
| | | | https://www.youtube.com/watch?v=atoP5_DeTPE |
| | | | https://www.youtube.com/watch?v=ksmsp9OzAsI |
| | | | https://www.youtube.com/watch?v=x1ef048b3CE |
| | | | https://www.youtube.com/watch?v=l_Nck-X49qc |
| | | | https://play.google.com/store/apps/details?id=appinventor.ai_jgarc322.Resu |
| | | | ltant_Force |
| | | | https://www.youtube.com/watch?v=RIBeeW1DSZg |
| | | | https://www.youtube.com/watch?v=R8wKV0UQtlo |
| | | | https://www.youtube.com/watch?v=0RZHHgL8m_A |
| | | | https://www.youtube.com/watch?v=Bls5KnQOWkY |
| | | | Activity-Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | Learning: |
| | | | https://www.youtube.com/watch?v=Zrc_gB1YYS0 |
| | | | https://play.google.com/store/apps/details?id=vn.edu.best4u.com.bieudonoil |
| | | | |
| | | | uc https://www.waytuba.com/watab?w.Hu.io.HucOm/ |
| | | | https://www.youtube.com/watch?v=Hn_iozUo9m4 |
| | | | https://play.google.com/store/apps/details?id=com.teobou |
| | _ | | https://www.youtube.com/watch?v=WOHRp3V-QA0 |
| | Intro | https://vtu.ac.in/p | https://rakhoh.com/en/applications-and-advantages-of-steam-in- |
| | ducti | df/2022syll/BES | manufacturing- and process-industry/ |
| | on To | CK104D.pdf | |
| | Mech | | Videos Makino (For Machine Tool Operation) Activity Based Learning |
| | anical | | (Suggested Activities in Class)/ Practical Based learning: |
| | Engin | | |
| | eerin | | Demonstration of lathe/milling/drilling operations |
| | g | | Demonstration of working of IC Engine. Study arc welding, oxy- |
| | | | acetylene gas flame structure. |
| | | | Video demonstration of latest trends in mobility robotics and |
| | | | Automation |
| | | | Demonstration of developing models on machine tools |
| \vdash | Smart | https://vtu.ac.in/p | YouTube Videos. Activity Based Learning (Suggested Activities in Class)/ |
| | Mater | df/2022syll/BET | Practical Based Learning: |
| | | | Tractical Dascu Learning. |
| | ials | CK105A.pdf | |
| | and | | Site visits to understand the prefabricated building components. |
| | syste | | Visit to Smart material manufacturing facilities |
| | ms | | Visit to 3-D printing facility |
| | Gree | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | n | df/2022syll/BET | https://www.youtube.com/watch?v=THgQF8zHBW8 |
| | Build | CK105B.pdf | https://www.youtube.com/watch?v=DRO_rIkywxQ |
| | ings | - - | - |
| | | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | learning |
| | | | Students have to visit a building which is green rated and prepare a report |
| ш | | | seasons have to the a contains which is green faced and propare a report |

100 00 mm

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| Intro | https://vtu.ac.in/p | https://nptel.ac.in/courses/118104008https://www.digimat.in/nptel/courses/v |
|----------------|--|--|
| ducti | df/2022syll/BET | ideo/118104008/L16.html |
| on to | CK105C.pdf | https://archive.nptel.ac.in/courses/113/106/113106099/ |
| Nano | | https://nptel.ac.in/courses/112107283 |
| Tech | | https://onlinecourses.nptel.ac.in/noc22_me131/preview |
| nolog | | |
| y | | Practical Based Learning (Any 5 experiments x 2 hours = 10 practical |
| | | hours): |
| | | |
| | | Preparation of silver nanoparticles and characterization of particle size |
| | | by optical spectroscopy |
| | | Preparation of ZnO nanoparticles by combustion technique Preparation |
| | | of Al2O3 nanoparticles by precipitation method Preparation of Silica |
| | | nanoparticles by sol-gel method Preparation of metal oxide |
| | | nanoparticles by hydrothermal method |
| | | Determination of thermal conductivity of nanofluids using a thermal |
| | | analyser |
| | | Preparation of thin films by SILAR method Determination of Band gap of a inequality and the state of th |
| Tutus | 1. ttm o. //retra o.o. im/m | of given material using Tauc plot VTU/EDUSAT/SWAYAM/NPTEL/MOOC. |
| Intro ducti | https://vtu.ac.in/p df/2022syll/BET | https://nptel.ac.in/courses/127105018 |
| on to | CK105D.pdf | https://nptel.ac.in/courses/127103018 https://https://nptel.ac.in/courses/107103081/www.macfound.org |
| Susta | CK105D.pui | https://unesdoc.unesco.org/ |
| inabl | | https://unesdoc.unesco.org/ark:/48223/pf0000375644.locale=en |
| e | | https://engineeringforoneplanet.org/ |
| Engin | | integration of the state of the |
| eerin | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| g | | Learning: |
| C | | |
| | | Group Discussion of case studies. Solutions to real time case studies |
| | | Seminar/Poster Presentation |
| Rene | https://vtu.ac.in/p | E-book: URL: https://www.pdfdrive.com/non-conventional-energy-sources- |
| wable | df/2022syll/BET | <u>e10086374.html</u> |
| Energ | CK105E.pdf | E-book: <u>URL:https://www.pdfdrive.com/non-conventional-energy-systems-</u> |
| y | | <u>nptel-d17376903.html</u> |
| Sourc | | E-book: https://www.pdfdrive.com/renewable-energy-sources-and-their- |
| es | | applications- e33423592.html |
| | | E-book: https://www.pdfdrive.com/lecture-notes-on-renewable-energy- |
| | | sources-e34339149.html |
| | | https://onlinecourses.nptel.ac.in/noc18_ge09/preview |
| | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | Learning: |
| | | Poster presentation on the theme of renewable energy sources |
| | | Industry Visit |
| Emer | https://vtu.ac.in/p | https://www.youtube.com/watch?v=kQ6CY1qpGjY |
| ging | df/2022syll/BET | https://nptel.ac.in/courses/102101054 |
| Appli | CK105G.pdf | https://onlinecourses.nptel.ac.in/noc20_ph13/preview |
| · | <u> </u> | The state of the s |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Recognized under2(f) &12B of UGC Act, 1956
Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC
Academics
Pedagogy &
e-Resources

| E | 1 | | https://onlinecourses.nptel.ac.in/noc22_ph01/preview |
|--|---|---|---|
| | ns Of | | |
| n | Biose | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | nsors | | Learning: |
| | | | AV presentation by students (on specific topics). |
| | | | Discussion of case studies based on research findings. |
| <u> </u> | _ | | Model making and Poster presentations |
| | | https://vtu.ac.in/p | https://nptel.ac.in/noc/courses/noc19/SEM1/noc19-cs31/ |
| | | df/2022syll/BET | A stivity Donal Learning (Cyconoted Activities in Class) / Drestical Donal |
| | on to Intern | CK105H.pdf | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | et of | | Learning: Demonstrate a conser based application |
| | Thing | | Demonstrate a sensor based application |
| S | _ | | |
| | (TOI) | | |
| | , , | https://vtu.ac.in/p | https://www.youtube.com/watch?v=yC_hFm0BX28&list=PLxApjaSnQGi6 |
| | | df/2022syll/BET | Jm7LLSxvmNQjS_rt9swsu |
| 0 | on to | CK1051.pdf | https://www.youtube.com/watch?v=nzZkKoREEGo&list=PL9ooVrP1hQO |
| | Cybe | | GPQVeapGsJCktzIO4DtI4_ |
| r | | | https://www.youtube.com/watch?v=6wi5DI6du- |
| | Secur | | 4&list=PL uaeekrhGzJlB8XQBxU3z hDwT95xlk |
| it | ity | | https://www.youtube.com/watch?v=KqSqyKwVuA8 16-2-2023 |
| | | | A stivity Donal Learning (Sycapoted Astivities in Class) / Drestical Donal |
| | | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | Learning:Illustration of standard case study of cyber crime |
| | | | Setup a cyber court at Institute level |
| T. | Intro | https://vtu.ac.in/p | NPTL Lectures: |
| | | df/2022syll/22ET | |
| d | ancri I | | https://nptel.ac.in/courses/108102045 |
| | | | https://nptel.ac.in/courses/108102045 Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary |
| О | | <u>C15J.pdf</u> | https://nptel.ac.in/courses/108102045 Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary |
| o E | on To | | |
| o E d | on To Embe | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary |
| o E d S | on To Embe dded | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| o E d S | on To Embe dded Syste | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: |
| o E d S | on To Embe dded Syste | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc |
| o E d S n | on To Embe dded Syste ms | C15J.pdf https://vtu.ac.in/p | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED |
| o E d S n | on To Embe dded Syste ms Intro ducti | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview |
| o E d S n | on To Embe dded Syste ms Intro ducti on to | C15J.pdf https://vtu.ac.in/p | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| o E d S n | on To Embe dded Syste ms Intro ducti on to Web | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: |
| o E d S n I i d o V P | on To Embe dded Syste ms Intro ducti on to Web Progr | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: Develop simple GUI interfaces for a computer program to interact with |
| In do o v P a | on To Embe dded Syste ms Intro ducti on to Web Progr ammi | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: |
| In do o v P a n | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng | https://vtu.ac.in/pdf/2022syll/BPLCK105A.pdf | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users |
| In do V P a n In I | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng Intro | https://vtu.ac.in/p df/2022syll/BPL CK105A.pdf | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users https://www.learnbyexample.org/python/ |
| In de la contraction de la con | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng Intro ducti | https://vtu.ac.in/pdf/2022syll/BPLCK105A.pdf https://vtu.ac.in/pdf/2022syll/BPLCK105A.pdf | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users https://www.learnbyexample.org/python/ https://www.learnpython.org/ |
| In do o v P a a n do o | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng Intro ducti | https://vtu.ac.in/p df/2022syll/BPL CK105A.pdf | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users https://www.learnbyexample.org/python/ |
| 1 | | 711/ /11/ / / CX711/ / / H | 1 https://mptsl.co.im/sorrass/100102045 |

100 00 mm

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy &
e-Resources

| Progr | | Learning: |
|---------|---------------------|---|
| ammi | | • Quizzes for list, tuple, string dictionary slicing operations using below |
| ng | | link |
| ···S | | |
| | | https://github.com/sushantkhara/Data-Structures-And- |
| | | AlgorithmswithPython/raw/main/Python%203%20 %20400%20exercises%20and |
| | | %20solutions%20for%20beginn ers.pdf |
| Basic | https://vtu.ac.in/p | https://onlinecourses.nptel.ac.in/noc22_cs47/preview |
| s of | df/2022syll/BPL | integration in the contract of the provider |
| Java | CK105C.pdf | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| Progr | <u>entros e.par</u> | Learning: |
| ammi | | Conduct on spot problem solving based on JAVA |
| ng | | Develop simple GUI interfaces for a computer program to interact with |
| ng . | | users |
| III | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| and | df/2022 3to8/2cs | http://www.class-central.com/subject/math(MOOCs) |
| IV | essyll.pdf | http://academicearth.org/ |
| Seme | <u>cssyn.pur</u> | http://www.bookstreet.in. |
| sters | | intp.//www.oookstroct.iii. |
| Com | | VTU EDUSAT PROGRAMME–20 and VTU e-Shikshana Program |
| puter | | Activity-Based Learning (Suggested Activities in Class)/Practical-Based |
| Scien | | Learning: |
| ce | | Programming Assignment |
| and | | Seminars |
| Engin | | • Semmars |
| eerin | | Note: Above are sample e-resources and practicals mentioned in one |
| g | | subject and e-resources of remaining courses are available in the VTU |
| Cours | | mentioned and are practicing regularly |
| es | | mentioned and are practioning regularry |
| III | https://vtu.ac.in/p | 1.Strength of Materials web course by IIT Roorkee |
| and | df/2022 3to8/2ci | https://nptel.ac.in/courses/112107146/ |
| IV | vsyll.pdf | 2.Strength of Materials video course by IIT Kharagpur |
| Seme | <u> </u> | https://nptel.ac.in/courses/105105108/ |
| sters | | 3.Strength of Materials video course by IIT Roorkee |
| Civil | | https://nptel.ac.in/courses/112107147/18 |
| Engin | | 4. All contents organized http://www.nptelvideos.in/2012/11/strengthof- |
| eerin | | materials-prof.html |
| g | | |
| Cours | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| es | | Learning: |
| | | Quiz (To assist in GATE Preparations) |
| | | Demonstrations in Lab Virtual Lab Experiments |
| | | 20110110110110 III 240 1 III 440 Experiments |
| | | Note: Above are sample e-resources and practicals mentioned in one |
| | | subject and e-resources of remaining courses are available in the VTU |
| | | mentioned and are practicing regularly |
| III | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| and | df/2022_3to8/2ec | http://www.class-central.com/subject/math(MOOCs) |
| IV | esyll.pdf | http://academicearth.org/ |
| - , | | soshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. |

100 00 mm

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Pedagogy &
e-Resources

| | Seme | | VTU e-Shikshana Program |
|----------|------------|---------------------|--|
| | sters | | • VTU EDUSAT Program. |
| | Electr | | VIO EDOSMI Hogiani. |
| | onics | | Activity-Based Learning (Suggested Activities in Class)/Practical-Based |
| | and | | Learning (Suggested Activities in Class)/11actical-based |
| | Com | | <u>=</u> |
| | | | • Quizzes |
| | muni | | • Assignments |
| | catio | | • Seminar |
| | n | | |
| | Engin | | Note: Above are sample e-resources and practicals mentioned in one |
| | eerin | | subject and e-resources of remaining courses are available in the VTU |
| | g | | mentioned and are practicing regularly |
| | Cours | | |
| | es | | |
| | III | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| | and | df/2022 3to8/2ee | http://www.class-central.com/subject/math(MOOCs) |
| | IV | syll.pdf | http://academicearth.org/ |
| | Seme | | |
| | sters | | VTU e-Shikshana Program |
| | Electr | | VTU EDUSAT Program. |
| | ical | | VIO EDOSAT Flogram. |
| | and | | Activity Deced Learning (Suggested Activities in Class) / Drestical Deced |
| | Electr | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | onics | | Learning Activity-Based Learning (Suggested Activities in Class)/Practical- |
| | | | Based Learning |
| | Engin | | • Quizzes |
| | eerin | | • Assignments |
| | g | | • Seminar |
| | Cours | | |
| | es | | Note: Above are sample e-resources and practicals mentioned in one |
| | | | subject and e-resources of remaining courses are available in the VTU |
| | | | mentioned and are practicing regularly |
| | III | https://vtu.ac.in/p | Statics and Strength of Materials, Shehata, 2nd edition, 1994. |
| | and | df/2022_3to8/2m | http://www.astm.org/DIGITAL_LIBRARY/JOURNALS/TESTEVAL/PAGES/JTE12637J. |
| | IV | ecsyll.pdf | htm |
| | Seme | | http://www.astm.org/DIGITAL_LIBRARY/JOURNALS/TESTEVAL/PAG |
| | sters | | E S/JTE12637J.htm |
| | Mech | | http://www.freeengineeringbooks.com/Civil/Strength-of-MaterialBooks.php |
| | anical | | |
| | Engin | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | eerin | | Learning |
| | | | • Use Mdsolids (https://web.mst.edu/mdsolids/) or any open source software |
| | g Cours | | for active teaching and learning. |
| | es | | 101 delive tederining directioning. |
| | Co | | Note: Above are sample e-resources and practicals mentioned in one subject |
| | | | and e-resources of remaining courses are available in the VTU mentioned |
| | | | |
| \vdash | Chart 1 | Mamany A 11 = | and are practicing regularly |
| | | Memory Alloys | https://www.slideshare.net/sureshdaravath/shape-memory-alloys- |
| | | 12:10 pm] | <u>71483726</u> |
| | .או.ס.וע | Topannavar: | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

| [07/01, 12:29 pm] | https://padeepz.net/shape-memory-alloys/ |
|---|---|
| Dr.S.N.Topannavar: Martensite | https://www.youtube.com/watch?v=r-o-neQiT24 |
| transformation animation | interpolity water |
| Properties of NiTi Alloys | https://youtu.be/EKimWj8c-MQ?si=xt2IV2XroB-TGDCU |
| [14/01, 12:41 pm] Dr.S.N.Topannavar: | https://youtu.be/60G1KCe31DA?si=-fH9w8qqdcF6tA4i |
| [14/01, 1:12 pm] | Intips://youtu.be/00011KGe51DA:SI=-II 19W0qquci OtA4I |
| Dr.S.N.Topannavar: | |
| Shape Memory Alloys | https://youtu.be/7PKJ1TSCQWk?si=94xqFo17R6Gd6dpk |
| [14/01, 12:58 pm] Dr.S.N.Topannavar: [14/01, 1:05 pm] | https://youtu.be/M4lDuktUael?si=31_nLc_qlrO4Brwt |
| Dr.S.N.Topannavar: [14/01, 1:10 pm] | https://youtu.be/yR-6_IS9vts?si=NytO45sqMLpHUPGh |
| Dr.S.N.Topannavar: 14/01, 2:52 pm] | https://youtu.be/I7doX1zWGdw?si=Cc3GafcswLn-HvxE |
| Dr.S.N.Topannavar: Applications of Shape | https://youtu.be/5hYOxFFjZ-8?si=Vw4bGVDbBb6HKR46 |
| Memory Alloys [14/01, 2:37 pm] | https://youtu.be/I7doX1zWGdw?si=eese-szhufVq6pU6 |
| Dr.S.N.Topannavar: [14/01, 2:40 pm] | |
| Dr.S.N.Topannavar: | |
| Piezoelectric Materials and Applications [14/01, | https://youtu.be/_XABS0dR15o?si=w_lp1UghKxbuqPF5 |
| 3:14 pm] | https://youtu.be/4nbBAG-848c?si=GPQBzxnSeCjOYNhI |
| Dr.S.N.Topannavar [14/01, 3:21 pm] Dr.S.N.Topannavar | https://youtu.be/pnvpsl3bzwQ?si=7LT4KBfRU_1Y04II |
| [14/01, 3:25 pm] Dr.S.N.Topannavar: | https://youtu.be/INaPVsVZkR8?si=5L7Axd4M7UMZSIDW |
| [14/01, 3:31 pm] Dr.S.N.Topannavar: | https://youtu.be/ULbNZuZuIPg?si=BKmQ69mMmVV_J2fi |
| [14/01, 3:33 pm] Dr.S.N.Topannavar: | https://youtu.be/p-rPep0-3cE?si=yC-m6ocf7OkFMI3p |
| [14/01, 3:34 pm] Dr.S.N.Topannavar: | |
| Self Healing Materials | https://youtu.be/xDp3PU8azmY?si=HDAEMX9awZIzcpMr |
| [30/01, 7:22 am] | |
| Dr.S.N.Topannavar: Electrical Self Healing | https://youtu.be/N_ijvkl51LM?si=4M0VGpAwO1X6_aMb |
| Materials | |
| [30/01, 7:21 am] | |
| Dr.S.N.Topannavar Self Healing Polymers | https://youtu.be/XnJbH9re2rl?si=fMa7FPwTGcmjecxx |
| [30/01, 7:21 am] | |
| Dr.S.N.Topannavar Targeted Drug Delivery | https://youtu.be/2k2BLFFQssg?si=ydD6e0s6PkXiWBl9 |
| System (TDDS) | TITLE S.// YOUTU. DO / ZINZ DET T GOOG! SI- YUDUGUSU! KATIV DIS |
| · | |

00000 000000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| [30/01, 7:16 am] | |
|--------------------------|--|
| Dr.S.N.Topannavar: | |
| Smart Drug Delivery | https://youtu.be/AqWzqhDaoz0?si=ws0q9YWpIRmF4Txg |
| System | |
| [30/01, 7:14 am] | |
| Dr.S.N.Topannavar: | |
| Bimorph MFC Actuator | https://www.youtube.com/watch?v=w79wTb2zOQQ |
| Bimorph Piezoelectric | https://www.youtube.com/watch?v=-XAIQQUcQk0 |
| Cantilever Mode Shapes | |
| Synthesis of Carbon | https://www.youtube.com/watch?v=FQ5Fe5I8vYU |
| Nanotubes (CNTs) by | |
| CVD Method | |
| Azobenzene : Organic | https://www.youtube.com/watch?v=novE6nQrBmU |
| Synthesis | nttps://www.youtuoc.com/waten:v=novEonQiBino |
| Azobenzene and | https://www.youtube.com/watch?v=HiI22ttaBf0 |
| | mttps.//www.youtube.com/watch/v=m122ttabio |
| Polyimide Film Shape | |
| Changing Polymer | hung//gaman and the combatter of the NC E |
| A crystal of azobenzene | https://www.youtube.com/watch?v=YGqEgrcnfXc |
| showing different | |
| patterns of flipping | |
| motion | |
| Smart coatings for | https://www.youtube.com/watch?v=6PJuJ1-fp7c |
| corrosion protection | |
| Scratching the Surface: | https://youtu.be/T0w_r8hrt5Q?si=CA-kfloLc4CyKiSz |
| Self Healing and Smart | |
| Coatings [30/01, 7:20 | |
| am] Dr.S.N.Topannavar | |
| | |
| New asphalt repairs its | https://youtu.be/C2CYClNVkCs?si=43Puhf-ifBMLKY7G |
| own cracks | |
| [30/01, 7:19 am] | |
| Dr.S.N.Topannavar: | |
| Self Healing Polymers by | https://youtu.be/fVTfSHEPnr8?si=uH6hdCcQRxt2cR2T |
| CIDETEC | |
| [30/01, 7:18 am] | |
| Dr.S.N.Topannavar: | |
| Nano particles for | https://youtu.be/xElVrV9zxRY?si=OczXLNpdu-Rof3bZ |
| Targeted Drug Delivery | |
| System | |
| [30/01, 7:17 am] | |
| Dr.S.N.Topannavar: | |
| Biomaterials in Drug | https://youtu.be/tx6IVsErnj8?si=ITeg26itxUnTBnx_ |
| Delivery System | |
| [30/01, 7:15 am] | |
| Dr.S.N.Topannavar: | |
| Piezo Disk Actuator, | https://www.youtube.com/watch?v=mAAT5fvbl4Y |
| Bimorph Disk Actuator | 1 |
| Long Travel, Molecualr | |
| Valve by www.pi.ws | |
| Thermal Bimorph | https://www.youtube.com/watch?w=NevoLHI1eLTc |
| | https://www.youtube.com/watch?v=NpxoUU1rLTs |

0000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| | I a grant of Dr |
|----------------------------|---|
| How Carbon Nanotubes | https://www.youtube.com/watch?v=SIif11QOsRI |
| Will Change the World | |
| pH Responsive Lipids- | https://www.youtube.com/watch?v=UpjLULz9Aq8 |
| Use in Smart Drug | |
| Delivery Systems | |
| Smart Polymers: The | https://www.youtube.com/watch?v=6hVJvXL3tMs |
| Game-Changing, | |
| Responsive, Resilient, | |
| and Revolutionary | |
| Polymer Developments | |
| Smart Materials of the | https://www.youtube.com/watch?v=4rwDgLMpk |
| Future - with Anna | integration with the garage |
| Ploszajski | |
| Research Spotlight: | https://www.youtube.com/watch?v=NTZDy8jkw68 |
| Julianna Abel - | intps://www.youtube.com/watch?v=N1ZDyojkwoo |
| | |
| developing 'smart' fabrics | |
| for medical and space | |
| applications | |
| Electronics in Space | https://www.youtube.com/watch?v=c4UtMI_xEQY |
| Applications | |
| Self-Healing Coatings to | https://www.youtube.com/watch?v=66mpHrlk_Fk |
| Prevent Corrosion | |
| Damage | |
| SMART COATINGS | https://www.youtube.com/watch?v=yD1Bt-jIwHw |
| FOR CORROSION | |
| PROTECTION DR S K | |
| DHAWAN | |
| How to Make PowerPoint | https://youtu.be/pdjiue2YbgY?si=YeBEV1pKstV-4pQL |
| PPT in Mobile ppt in | |
| mobile phone Power- | |
| point in mobile | |
| · | |
| • | |
| How to speak on Ctore | https://wowtube.com/chorte/MOtDlesvElsVe9ci_HWEf0-C_IM10WOt |
| How to speak on Stage | https://youtube.com/shorts/V0tPkayEkKs?si=HYEf0zC-JM10mK9t |
| How to start | https://www.ba/ODt_CHaiDMH9aiD5Wa_VCT-O-C5 |
| How to start | https://youtu.be/QPt_CHcjDMU?si=zuvR5WnzKCTxQvG5 |
| presentations? | |
| Presentation Skills Five | |
| Tips For Presentation by | |
| Jaswant Sir | |
| | |
| How to make great | https://youtu.be/yPhUz6xjhGY?si=_hme-IRdI3L03XL- |
| presentations 10 | |
| powerful presentation tips | |
| | |
| A Recipe For Self- | https://youtu.be/JZbQURpXdaA?si=r4r4qZlM9YbPbmjF |
| healing Concrete! - | |
| Science Snapshot | |
| | I |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

| SMART COATINGS FOR CORROSION PROTECTION DR S K DHAWAN | https://youtu.be/yD1Bt-jIwHw?si=L5WLFGyKixCtezcw |
|--|--|
| A Recipe For Self- healing Concrete! - Science Snapshot | https://youtu.be/JZbQURpXdaA?si=r4r4qZlM9YbPbmjF |
| Scratching the Surface: Self-Healing and Smart Coatings Research at BP- ICAM | https://youtu.be/T0w_r8hrt5Q?si=Ev4abZFvuDbVwLBX |
| Corrosion in Reinforced Concrete | https://youtu.be/cX2FdjV4eOY?feature=shared |
| Graphene anti-corrosion coating - Enerage Inc. | https://youtu.be/h6VFemlHXTU?si=7gzR6MHrsJ4ZBXMb |
| Liquid Crystals NSF Chalk Talk | https://youtu.be/nAJgchCI3kg?si=-ev34gRf1LFe4_Bi |
| This new material heals—not cracks—under pressure | https://youtu.be/VJCX0xgQFBE?si=N7a1spYPUiqg1Ci9 |
| Self-Healing Coatings to Prevent Corrosion Damage | https://youtu.be/66mpHrlk Fk?si=cgPOyRbZRRbSixR0 |
| Shape Memory Alloy Heat Engine | https://youtu.be/I78ZTkdZ0b0?feature=shared |
| Photoresponsive Liquid Crystalline Epoxy Networks with Shape Memory Behavior and Dynamic Ester | https://youtu.be/dldwbymd7eA?si=CFtTWbYPGvU9XmD4 |
| Azobenzene and Polyimide Film Shape Changing Polymer | https://youtu.be/HiI22ttaBf0?si=Bl-TElmdm81LeuFI |
| Hair Gel | https://youtube.com/shorts/0eirRrU312Y?si=bry6aPBVY5iyOxar |
| | https://youtu.be/Y6K7h9tbD_s?si=GTjcsrEwblb35E-S |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics
Pedagogy &
e-Resources
AY:2022-23

| Liquid Crystals Painted on Heat Pipes | |
|--|--|
| What are Liquid Crystals? | https://youtu.be/MuWDwVHVLio?si=xrSjouoB7Zu4m95V |
| New Gel Protects Eggs and May Lead to Better Sports Helmets Headline Science | https://youtu.be/yBMWBhpeiy8?si=57TdmzORewh7pwha |
| Self-Healing Material | https://youtu.be/DAUl6upA3q4?si=mQHDknLx3AIIiZcL |
| Smart Gel | https://youtu.be/W-YYtQkldgU?si=i1fhaN8H8Pa67SYO |
| What are Liquid Crystals : Definition ,Formation, Types , Uses & Properties of Liquid Crystals | https://youtu.be/JIZhHhpVRrI?si=HU-UCu71guAiA4ay |
| Colour changing Liquid Crystals | https://youtube.com/shorts/IFY-HufqZPU?si=Kxj1NyqMEBvixmzy |
| Liquid Crystals | https://youtube.com/shorts/R7kbdWBVQF0?si=aoINogRmKKtkjGgc |
| Learn to deliver PRESENTATIONS confidently in ENGLISH! | https://youtu.be/Q074YSGwRTM?si=6YnCRvt6xOGWK-2O |
| India on path to triple renewable energy capacity by 2030 but faces financing hurdle: Report 29/11, 2:57 pm] Dr.S.N.Topannavar: | https://www.moneycontrol.com/news/business/economy/india-on-path-to-triple-renewable-energy-capacity-by-2030-but-faces-financing-hurdle-report-11826361.html |
| India on path to triple renewable energy capacity by 2030 but faces financing hurdle: Report - [30/11, 4:32 pm] Dr.S.N.Topannavar | https://www.notebookcheck.net/Energy-start-up-designs-offshore-wind-turbine-to-double-power-generation.771828.0.html |
| 30/11, 4:39 pm] Dr.S.N.Topannavar: | [https://solarquarter.com/2023/11/28/solar-and-wind-power-constitute-over-88-of-total-renewable-installed-capacity-by-october-2023/ |
| [04/12, 6:10 am] Dr.S.N.Topannavar: | https://www.business-standard.com/economy/news/proposed-5-biogas-blending-with-lng-can-cut-imports-worth-1-17-bn-iba-123120300252_1.html |
| [10/12, 1:22 am] | https://solarquarter.com/2023/12/05/quarterly-analysis-of-solar-pv-installed- |

00000 000000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| Dr.S.N.Topannavar: | capacity-in-india-q1-2021-to-q3-2023/ |
|--|---|
| [10/12, 9:14 am] Dr.S.N.Topannavar: | https://www.financialexpress.com/business/sustainability-indias-potential-as-a-global-hydrogen-electrolyzer-manufacturing-hub-3334155/ |
| [10/12, 9:26 am] Dr.S.N.Topannavar: | https://www.moneycontrol.com/news/business/kundan-energy-to-develop-80-mw-hydropower-at-rs-1000-crore-investment-in-uttarakhand-11878161.html |
| [10/12, 9:27 am] Dr.S.N.Topannavar: | https://www.iamrenew.com/green-energy/revolutionizing-biogas- production-lehmann-umts-bioextrusion-process/ |
| [10/12, 9:29 am] Dr.S.N.Topannavar: | https://electrek.co/2023/12/08/us-first-large-scale-offshore-wind-farm-vineyard-wind-1/ |
| [10/12, 9:30 am] Dr.S.N.Topannavar: | https://www.businesstoday.in/impact-feature/story/forging-the-path-to-net-zero-how-to-drive-a-world-class-net-zero-transformation-408570-2023-12-07 |
| [10/12, 9:31 am] Dr.S.N.Topannavar: | https://solarquarter.com/2023/12/06/masdar-edf-renewables-and-nesma-renewable-energy-wins-a-contract-for-a-1-1-gw-solar-project-in-saudi-arabia/ |
| 15/12, 7:14 am] Dr.S.N.Topannavar | : https://www.businesstoday.in/visualstories/news/india-to-build-worlds-largest-solar-farm-equivalent-to-the-size-of-singapore-80799-08-12-2023 |
| [16/12, 7:53 am] Dr.S.N.Topannavar | : https://www.saurenergy.com/solar-energy-news/zetwerk-secures-375-mw-solar-module-deal-with-ntpc |
| [16/12, 7:54 am] Dr.S.N.Topannavar: | https://solarquarter.com/2023/12/13/sembcorp-secures-singapores-largest-solar-power-project/ |
| [16/12, 7:56 am] Dr.S.N.Topannavar: | https://www.moneycontrol.com/news/business/companies/india-gets-bids-for-green-hydrogen-electrolyser-incentives-11911761.html |
| [16/12, 7:57 am] Dr.S.N.Topannavar: | https://www.pv-magazine.com/2023/12/12/french-startup-offers-ai-algorythm-package-for-rooftop-pv-monitoring/ |
| [16/12, 7:58 am] Dr.S.N.Topannavar: | https://tradebrains.in/features/renewable-energy-stock-jumps-after-it-bags-100-8-mw-wind-power-project-in-gujarat/ |
| [16/12, 7:59 am] Dr.S.N.Topannavar: | https://www.financialexpress.com/web-stories/sme/10-solar-business-ideas- to-start-in-2024/ |
| [10/12, 9:36 am] Dr.S.N.Topannavar: | https://youtu.be/pdjiue2YbgY?si=YeBEV1pKstV-4pQL |
| [10/12, 9:45 am] Dr.S.N.Topannavar: | https://youtu.be/Q074YSGwRTM?si=6YnCRvt6xOGWK-2O |
| [10/12, 9:50 am] Dr.S.N.Topannavar: | https://youtube.com/shorts/V0tPkayEkKs?si=HYEf0zC-JM10mK9t |
| [10/12, 9:51 am] Dr.S.N.Topannavar: | https://youtu.be/QPt_CHcjDMU?si=zuvR5WnzKCTxQvG5 dasoshi-591 236. Tag: Hukkeri, Dist: Belagavi, Karnataka, India. |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| [10/12, 9:53 am] Dr.S.N.Topannavar: | https://youtu.be/yPhUz6xjhGY?si=_hme-IRdI3L03XL- | | |
|--|---|--|--|
| VTU Curriculum-book | https://www.pdfdrive.com/non-conventional-energy-sources- | | |
| URL: | <u>e10086374.html</u> | | |
| VTU Curriculum-book | https://www.pdfdrive.com/non-conventional-energy-systems-nptel- | | |
| URL: | <u>d17376903.html</u> | | |
| VTU Curriculum-book | https://www.pdfdrive.com/renewable-energy-sources-and-their- | | |
| URL: | applications- e33423592.html | | |
| VTU Curriculum-book | https://www.pdfdrive.com/lecture-notes-on-renewable-energy-sources- | | |
| URL: | <u>e34339149.html</u> | | |
| VTU Curriculum-book | https://onlinecourses.nptel.ac.in/noc18_ge09/preview | | |
| URL: | | | |
| Models and charts to realis | Models and charts to realise atomic structures of different materials and phase transformations | | |
| Material Testing lab visit t | Material Testing lab visit to realise the strengths and properties of different materials | | |
| Models show the stimuli a | Models show the stimuli and responses of smart materials | | |
| Application oriented pedag | Application oriented pedagogical teaching in the class | | |

| VTU Board of Studies (BoS) recommended e-Resources | | | |
|---|--|--|--|
| (Web links, Video Lectures, MOOCs, e-Shikhsana Program, NPTEL, EDUSAT, YouTube, Vlab etc.), | | | |
| (2018-19 to 2023-24) | | | |
| | | | |

| | (2010-17 to 2023-24) | | | | |
|------|--------------------------|--|---|--|--------|
| S.N. | Faculty Name | Course | VTU Syllabus link where e- resources are mentioned | e-Resource | Branch |
| 1 | Prof.S.S. Malaj | Basic Electronics | https://vtu.ac.in/pdf/2022syll/BBEE 203.pdf | https://nptel.ac.in/courses/1 22106025 | ECE |
| 2 | Prof.S.S. Malaj | Basic Electronics | https://vtu.ac.in/pdf/2022syll/BBEE 203.pdf | https://nptel.ac.in/courses/1 08105132 https://nptel.ac.in/courses/1 17104072 | ECE |
| 3 | Prof.S.S. Malaj | Introduction to Internet of Things | https://vtu.ac.in/pdf/2022syll/BETC K105H.pdf | https://nptel.ac.in/noc/cours es/noc19/sem1/noc19-cs31 | ECE |
| 4 | Prof. D. B. Madihalli | Introduction to Python Programming | BPLCK105B.pdf (vtu.ac.in) | Learn Python by Examples: https://www.learnbyexampl e.org/python/ https://www.learnpython.or g https://pythontutor.com/vis ualize.html#mode=edit | ECE |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics Pedagogy & e-Resources Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

AY:2022-23

IQAC

| 5 | Prof.S.S. | Basic | https://vtu.ac.in/pdf/2021syll/21eln | https://doi.org/10.4324/978 | ECE |
|-----|-------------|---------------------|---|--|-----|
| 2 | Malaj | Electronics | 24.pdf | 1315737980.BookISBN97813 | 202 |
| | | and | | 15737980 | |
| | | communicati | | | |
| | | on | | | |
| | | Engineering | | | |
| 6 | Dr.S.S. | Basic Signal | https://vtu.ac.in/pdf/2021syll/ecsch | https://www.youtube.com/ | ECE |
| | Ittannavar | Processing | <u>syll.pdf</u> | watch?v=KJnAy6hzetw&list= | |
| | | | | PL41692B571DD0AF9B | |
| | | | | https://www.youtube.com/ | |
| | | | | watch?v=ZK3O402wf1c&list= PL49CF3715CB9EF31D&inde | |
| | | | | x=1 | |
| 7 | Dr.S.S. | Digital | https://vtu.ac.in/pdf/2021syll/ecsch | https://nptel.ac.in/courses/1 | ECE |
| , | Ittannavar | Signal | syll.pdf | 17102060 | LCL |
| | Tttuima vai | Processing | sympa. | 1710200 | |
| 8 | Dr.S.S.I | Digital | https://vtu.ac.in/pdf/2021syll/ecsch | https://nptel.ac.in/courses/1 | ECE |
| | ttannavar | Communicati | syll.pdf | 08102096 | |
| | | on | | | |
| 9 | Dr.S.S. | Multimedia | https://vtu.ac.in/pdf/2018syll/ec.pd | https://www.youtube.com/ | ECE |
| | Ittannavar | Communicati | <u>f</u> | watch?v=rC16fhvXZOo | |
| | | on | | | |
| 10 | Dr.S.S. | MATLAB | https://vtu.ac.in/pdf/2022_3to8/2e | https://www.youtube.com/ | ECE |
| | Ittannavar | Programming | <u>cesyll.pdf</u> | watch?v=luEOMyGuulg | |
| 11 | Dr.S.S. | Digital | https://vtu.ac.in/pdf/2018syll/ec.pd | https://nptel.ac.in/courses/1 | ECE |
| | Ittannavar | Signal | <u>f</u> | <u>17102060</u> | |
| 12 | Dr.S.S. | Processing | https://utu.as.ip/pdf/2019sull/as.pd | https://pptol.go.in/courses/1 | ECE |
| 12 | Ittannavar | Digital Communicati | https://vtu.ac.in/pdf/2018syll/ec.pd f | https://nptel.ac.in/courses/1 08102096 | ECE |
| | Tuaimavai | on | 1 | 08102030 | |
| 13 | Prof. B. P | Digital Image | https://vtu.ac.in/pdf/2018syll/ec.pd | https://youtu.be/ArKe6zMkX | ECE |
| 10 | Khot | Processing | <u>f</u> | nk | LCL |
| | | | _ | https://youtu.be/nlwH07G9E | |
| | | | | <u>fg</u> | |
| | | | | https://youtu.be/MrNafUqh | |
| | | | | 860 | |
| 14 | Prof. B. P | Network | https://vtu.ac.in/pdf/2018syll/ec.pd | https://youtu.be/2YGUvopG | ECE |
| | Khot | Security | <u>f</u> | <u>kQc</u> | |
| 1.5 | D CD D | | https://www.cis/del/2010.ci/ | haterallian to be hard and | EGE |
| 15 | Prof. B. P | Computer | https://vtu.ac.in/pdf/2018syll/ec.pd | https://youtu.be/Wfau1WC5 | ECE |
| | Khot | Organization and | <u>f</u> | m4c https://youtu.be/Q7YdIhbRe | |
| | | Architecture | | a0 | |
| | | Aichitecture | | https://youtu.be/s4cVdsK3Xi | |
| | | | | Q | |
| 16 | Prof.S.S. | Circuits and | https://vtu.ac.in//pdf/2021syll/ecsc | https://nptel.ac.in/courses/ | ECE |
| | Malaj | controls | hsyll.pdf | 108106098 | |
| | 1 | 1 | 1 | | |
| | | | | https://nptel.ac.in/courses/ | |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

AY:2022-23

| 17 | Prof. S. S. Kamate | S&S | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=0nZYen9w_eo&l ist=PLyqSpQzTE6M8KJ- XQ1m2vl3nd2ZUqKEN8 https://www.youtube.com/ watch?v=_vyke3vF4Nk https://www.youtube.com/ watch?v=lkAvgVUvYvY | ECE |
|----|-----------------------|-------------------------------|---|---|-----|
| 18 | Prof. S. S. Kamate | M&A | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/watch?v=wx tIvaajAI&list=PLzJaFd3A7DZsL9dZDCeA3ijHZwwBb6R8yhttps://www.youtube.com/watch?v=wKL6WsEOl00&list=PLGnJGN4tr1dY3UivHBTJBQAcvlQ1FYEbG | ECE |
| 19 | Prof. S. S. Kamate | Engg. Electromagn etics | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=G5P6dInMTFg& list=PLuv3GM6-gsE3- hVNaw- YEb7EeY5XVPZdz https://www.youtube.com/ watch?v=pGdr9WLto4A& list=PL1CE5B4FFFA997E 5D | ECE |
| 20 | Prof. S. S. Kamate | VLSI Design | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=lRpt1fCHd8Y&li st=PLU8VFS- HdvKtKswbcvvA8yVhzle TV7OE8 https://www.youtube.com/ watch?v=M2x_lSYxvXk https://www.youtube.com/ watch?v=faiEVOOCe-s | ECE |

List of Self-prepared Pedagogical Initiatives and Innovative Teaching aids used by the teachers to promoteexperiential learning among the students

| S.N. | Self-prepared Pedagogical initiatives and Innovative teaching aids | Course/Topic | Dept |
|------|---|---------------------------------------|----------------|
| 1. | Concept realization through learning models/charts in the class room. | EME: IC engine models, Gears, Milling | Mech. Engg. |
| 2. | Concept realization through | EME: Turbines & Pumps in the Fluid | Mech. |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy &
e-Resources

| Accredited at 'A' Grade by NAAC | AY:2022-23 | |
|---------------------------------|---|-------|
| | | |
| equipment demonstration in the | Machinery Lab, Lathe, Drilling, Milling | Engg. |
| respective laboratories. | Machines in the Machine Shop and Welding in | |

| | equipment demonstration in the | Machinery Lab, Lathe, Drilling, Milling | Engg. |
|-----|---|---|----------------|
| | respective laboratories. | Machines in the Machine Shop and Welding in | |
| | | the Workshop | |
| 3. | Inspiring students to arrive basic | Thermodynamics Laws and Properties, | Mech. |
| | definitions/laws by giving | Refrigerating Effect, Ton of Refrigeration, IC | Engg. |
| | examples/case studies/current | engine efficiencies and powers, | |
| | affairs/routine activities/events etc. | Definitions/functions of Turbines and Pumps, | |
| | indirectly | Speed Ratios of Gear Trains/Belt Drives | |
| 4. | Motivating students to comprehensive | Numerical solving on Thermodynamic | Mech. |
| | understanding of the numerical | Concepts, Steam Formation, Gear Trains, Belt | Engg. |
| | problem statements (basic & Logic) | Drives, IC engines | |
| | before solving. | , , | |
| 5. | Teaching students how to read and | T-h diagram of steam formation, PV diagram | Mech. |
| | understand formulae, graphs and | of Thermodynamics/IC engines, Steam Tables, | Engg. |
| | tables?, and predicting, analyzing and | energy conversion equations | |
| | reasoning on technical parameters. | chargy conversion equations | |
| 6. | Teaching derivations and their | Equations of I and II law of thermodynamics, | Mech. |
| • | derivatives (final & intermediate) | entropy, IC engine efficiencies/powers, | Engg. |
| | through units and their different | enthalpy of steam, Specific heats, latent heats | 55. |
| | forms. | Similar of Scenari, Special news, mean news | |
| 7. | Realizing and feeling the scale of the | Showing the height of the boiler w.r.t man avg. | Mech. |
| , • | equipment, quantity, process etc. | height, Feeling of 1 bar pressure/1 N | Engg. |
| | through sketches, actions, demos etc. | force/Temperature, 1 Joule energy | 255. |
| 8. | After teaching, ensuring the students' | | |
| 0. | learning by motivating students to list | Steams/turbines/pumps/engines/boilers, | Mech. Engg. |
| | the comparisons, differentiations, | Comparisons between Energy sources, | Eligg. |
| | classification, similarities with | similarity between heat and work. | |
| | reasons in the class rooms. | Similarity between heat and work. | |
| 9. | Promoting Cooperative/Informal | Elements of Mechanical Engineering | Mech. |
| 7. | learning through interactions outside | Elements of Weenamen Engineering | Engg. |
| | the class room between slow learners | | Lligg. |
| | and bright student/s. | | |
| 10. | Discussion on the end | Elements of Mechanical Engineering | Mech. |
| 10. | results/solutions of the complex | Elements of Weenamear Engineering | Engg. |
| | problems | | Eligg. |
| 11. | 1 | Functions renewable energy conversion | Mech. |
| 11. | class rooms | systems/boilers/turbines/pumps/gears/welding/l | |
| | Class rooms | athes | Engg. |
| 12 | Industry Visits | Elements of Mechanical Engineering | Mech. |
| 12. | industry visits | Elements of Mechanical Engineering | |
| 12 | Application enjoyeed tooching and | Fone and their blade design for angusy | Engg. |
| 13. | | Fans and their blade design for energy | Mech. |
| | creating curiosity to learn and | conversion/thermodynamics concepts, | Engg. |
| 1.4 | understand the concepts. | Density/specific volume, heat transfer | N / 1 |
| 14. | | Elements of Mechanical Engineering | Mech. |
| | asking questions, creating curiosity, | | Engg. |
| | connecting routine | | |
| | applications/practices etc. | | |
| 15. | Flapped Teaching and Learning | Elements of Mechanical Engineering | Mech. |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956

IQAC
Academics
Pedagogy & e-Resources

| | process | | Engg. |
|-----|--|--|-------------|
| 16. | Spot quantifying of learning and | Elements of Mechanical Engineering | Mech. |
| | motivating students to express the | | Engg. |
| | feedback about teaching and learning | | |
| | process | | |
| 17. | Teaching by the students on his/her | Elements of Mechanical Engineering | Mech. |
| | chosen topic | | Engg. |
| 18. | Motivational teaching to draw | Strokes in IC engines, Refrigeration cycles, | Mech. |
| | meaningful and logical based sketches | Turbines, Pumps, Lathe and its machining | Engg. |
| | including graphics. | operations | |
| 19. | Inspiring students to read reputed | Elements of Mechanical Engineering | Mech. |
| | reference books and to make their | | Engg. |
| | own notes. | | |
| 20. | Motivational teaching to create own | Elements of Mechanical Engineering | Mech. |
| | sketches to understand the critical | | Engg. |
| | concepts and express them in the | | |
| 21 | exams to strengthen the answers | | 3.6.1 |
| 21. | Facilitating self-Video Lectures for Slow learners and absentees | Elements of Mechanical Engineering | Mech. |
| 22 | | Wind Engagy | Engg. Mech. |
| 22. | https://www.youtube.com/watch?v=q SWm_nprfqE | Wind Energy | |
| | https://www.youtube.com/watch?v=x | | Engg. |
| | y9nj94xvKA | | |
| 23. | https://www.youtube.com/watch?v=x | Solar Energy Conversion | Mech. |
| 23. | Kxrkht7CpY | Sold Energy Conversion | Engg. |
| | https://www.youtube.com/watch?v=8 | | 88 |
| | nJXN6kwyqA | | |
| | https://www.youtube.com/watch?v=x | | |
| | Kxrkht7CpY | | |
| | <pre>https://www.youtube.com/watch?v=Z</pre> | | |
| | AJeDVLO1_w | | |
| | https://www.youtube.com/watch?v=lr | | |
| | RTCbXE0Jc | | |
| 24. | https://www.youtube.com/watch?v=Id | Thermal Power Plant | Mech. |
| | PTuwKEfmA | D: 6 1/ | Engg. |
| 25. | https://www.youtube.com/watch?v=tP | Bio fuel/gas production | Mech. |
| | HyYM7UqSo | | Engg. |
| | https://www.youtube.com/watch?v=c 1adiK8nLbA | | |
| | https://www.youtube.com/watch?v=O | | |
| | Jw6WFkTPZo | | |
| 26. | https://www.youtube.com/watch?v=2 | Nuclear Energy Production | Mech. |
| 20. | W-GEE6YU4M | Tracted Energy Froduction | Engg. |
| | https://www.youtube.com/watch?v=m | | 255. |
| | BdVK4cqiFs | | |
| | https://www.youtube.com/watch?v=xr | | |
| | k7Mt2fx6Y | | |
| | K/IVItZIXU I | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

| Academics | |
|-------------|--|
| Pedagogy & | |
| e-Resources | |
| AY:2022-23 | |

| UwexvaCMWA | A | | |
|--|----------------------|--|-------|
| https://www.yo | outube.com/watch?v=A | | |
| MXxXoHtM-o | | | |
| 27. https://www.yo | outube.com/watch?v=q | Hydroelectric power plant | Mech. |
| 8HmRLCgDAI | - | J | Engg. |
| | outube.com/watch?v=U | | 86 |
| hjhufhg3Xk | | | |
| | outube.com/watch?v=h | | |
| C8NEiwrLTg | | | |
| 28. Basics of Therr | modynamics: | Basics of Thermodynamics | Mech. |
| | • | • Steam Formation-Properties | Engg. |
| | u.be/ouEjwbRraNo | Steam Formation Froperties | 86 |
| ' - | u.be/z1nE-23ZglQ | | |
| | u.be/_krp-ATP30s | | |
| | u.be/3Sxj9OG31PU | | |
| Steam Formation | • | | |
| | u.be/uFlocTrVEOg | | |
| / | u.be/jmjOITS4a94 | | |
| | u.be/ahuXCZ91ats | | |
| 29. Boilers: | · | Boilers | Mech. |
| 1) https://yout | u.be/PRtvB00d5V0 | Turbines | Engg. |
| 2) https://yout | u.be/AWSJVmg1w58 | Hydraulic Pumps | |
| 3) https://yout | u.be/28S0rS5ScgI | | |
| 4) https://youtu | u.be/XuV5MusoAgc | | |
| Turbines: | • | | |
| 1) https://yout | u.be/cESnwE2hgxA | | |
| 2) https://yout | u.be/3_5VEuA_ctw | | |
| 3) https://yout. | u.be/d3-BqXwbQcY | | |
| 4) https://youtrage/4 | u.be/UB0DyOaDwxU | | |
| 5) <a href="https://youtreedings.com/https://y</th><th>u.be/H8x1rIdiHWc</th><th></th><th></th></tr><tr><th>Hydraulic Pum</th><th>ps:</th><th></th><th></th></tr><tr><th>1) https://yout | u.be/LFv4NGA2qtw | | |
| 2) https://yout | u.be/SX9rkMO2iKo | | |
| 3) <a href="https://youtreedings.com/https://y</th><th>u.be/6VRYJcZXotI</th><th></th><th></th></tr><tr><th>30. IC Engines:</th><th></th><th>• Internal Combustion (IC) Engines</th><th>Mech.</th></tr><tr><th>1) <a href=" https:="" th="" youtu<=""><th>u.be/ltp_gx4oc0U</th><th></th><th>Engg.</th> | u.be/ltp_gx4oc0U | | Engg. |
| 2) <a href="https://youtu</th><th>u.be/BrQJVA-Ne2E</th><th>• Refrigeration and Air Conditioning (AC)</th><th></th></tr><tr><th>3) <a href=" https:="" th="" youtu<=""><th>u.be/xyB8DnIw3Co</th><th></th><th></th> | u.be/xyB8DnIw3Co | | |
| | u.be/TStNvU5KORg | | |
| | u.be/1sKl7POCJ08 | | |
| | u.be/3DLJoMc708I | | |
| | u.be/ahqHOdLmtCc | | |
| / | u.be/wtHiUvTEoD8 | | |
| | u.be/3Fw5_aEfrbU | | |
| Refrigeration: | | | |
| , | u.be/y9gCc4jYkPY | | |
| , | u.be/zwNaU_6dMgY | | |
| | u.be/JEgjgSkhEIo | | |
| 4) https://yout | u.be/KQRb_25gR7M | : Hukkeri. Dist: Belagavi. Karnataka. India. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy &
e-Resources

| 5) 1 // // D COCIDI | T | 1 |
|--|---|-------|
| 5) https://youtu.be/kurwDfOSlBk | | |
| Air-Conditioning (AC): | | |
| 1) https://youtu.be/1BEKiLNNjRQ | | |
| 2) https://youtu.be/AJ508pSoci0 | | |
| 3) https://youtu.be/IIoouWdNU7k | | |
| 31. Engineering Materials: | Properties, Compositions and Industrial | Mech. |
| 1) https://youtu.be/3cZmDZepNAE | Applications of Engineering Materials | Engg. |
| 2) https://youtu.be/FproDJHrxeA | • Joining Processes | |
| Joining Processes: | •Belt Drives | |
| 1) https://youtu.be/Jpev1oGMEhg | • Gear Drives | |
| 2) https://youtu.be/9NXTKdX_qu4 | Gear Drives | |
| 3) https://youtu.be/Z0WOeVYg81c | | |
| 4) https://youtu.be/iXraH72qwcY | | |
| 5) https://youtu.be/5srRIznYEdY | | |
| 6) https://youtu.be/qAIqOSpBf Q | | |
| 7) https://youtu.be/GNLsxnjsIzs | | |
| 8) https://youtu.be/uRmgDTcNEQU | | |
| Belt Drives: | | |
| 1) https://youtu.be/L9iuKli2WZY | | |
| 2) https://youtu.be/SGOBo7tp8gY | | |
| 3) https://youtu.be/o_ZTtr2vlho | | |
| 4) https://youtu.be/13zz8qey_K0 | | |
| | | |
| 5) https://youtu.be/9u Fgi2G uw | | |
| 6) https://youtu.be/1 KxQzi3SCY | | |
| 7) https://youtu.be/KrfsP5VdGp8 | | |
| 8) https://youtu.be/Ba_0FDzFYH0 | | |
| Gear Drives: | | |
| 1) https://youtu.be/x0pA5boJh1M | | |
| 2) https://youtu.be/6ZIHS4_j6yQ | | |
| 3) https://youtu.be/jBacF4mkVAA | | |
| 32. Lathe Machine: | Lathe Machine | Mech. |
| 1) https://youtu.be/j8eKqrjaoFU | Milling Machine | Engg. |
| 2) https://youtu.be/4FoTMmlO60s | Introduction to Advanced | |
| 3) https://youtu.be/pngcpwmQABw | Manufacturing Systems | |
| 4) https://youtu.be/zcFtZVywZ-s | • Robots | |
| 5) https://youtu.be/RY7zAyPF1Lo | | |
| Milling Machine: | | |
| 1) https://youtu.be/RcfqhRRsJhI | | |
| 2) https://youtu.be/K1el91hK36k | | |
| 3) https://youtu.be/bgq1xRb-kdM | | |
| 4) https://youtu.be/-I8gjY0GDYA | | |
| 5) https://youtu.be/5Ygf-u5P3oU | | |
| 6) https://youtu.be/sZ1AJ7nDbFo | | |
| | | |
| Advanced Manufacturing Systems: | | |
| 1) https://youtu.be/5sseHUWBuHs | | |
| 2) https://youtu.be/yXvm84m-5t0 | | |
| 3) https://youtu.be/Vy3-VmJvV9E | | |
| Robots: | | |
| | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

| | 1) https://youtu.be/VONRliCuT_w | | |
|-----|-----------------------------------|---|--------|
| | 2) https://youtu.be/lrlt1aKr2ck | | |
| 33. | https://www.youtube.com/watch?v=e | Fluid Properties | Mech. |
| | 6a2q9k2JCA | | Engg. |
| | https://www.youtube.com/watch?v=s | | 21188. |
| | A99mw3D2Ds | | |
| | https://www.youtube.com/watch?v=A | | |
| | 0BuHEqDm88 | | |
| | https://www.youtube.com/watch?v=d | | |
| | • | | |
| | yYkUUtOYpQ | | |
| | https://www.youtube.com/watch?v=E | | |
| | pbuI6CbMRU | | |
| | https://www.youtube.com/watch?v=G | | |
| | 8G2ObAbZ8 | | |
| | https://www.youtube.com/watch?v=H | | |
| | tgFMXZw2Fw&list=PLWPirh4EWF | | |
| | pEduIfhK_VnKCK7VqHDoZKV | | |
| | https://www.youtube.com/watch?v=5 | | |
| | NCOnr3VSAY | | |
| | https://www.youtube.com/watch?v=v | | |
| | y2LW9tUFHA | | |
| 34. | https://www.youtube.com/watch?v=q | Pascal Law | Mech. |
| | GQ4fojjwvQ | | Engg. |
| | https://www.youtube.com/watch?v=w | | 22 |
| | HMHxO9Ys 0 | | |
| | https://www.youtube.com/watch?v=o | | |
| | UF3hWw4tY4 | | |
| | https://www.youtube.com/watch?v=Y | | |
| | uSKghET21A | | |
| 35. | https://www.youtube.com/watch?v=g | Manometers | Mech. |
| | 0kpcCBuXe0 | | Engg. |
| | https://www.youtube.com/watch?v= | | 88 |
| | WmWw_IB6nv4 | | |
| | https://www.youtube.com/watch?v=- | | |
| | P1EvVuuPoI | | |
| | https://www.youtube.com/watch?v=J | | |
| | TM-NvuCW9w | | |
| | https://www.youtube.com/watch?v=1 | | |
| | ey4oBuNSw | | |
| | https://www.youtube.com/watch?v=z | | |
| | PdB4MdRErc | | |
| 36. | | Duoyanay & Floating | Mash |
| 30. | https://www.youtube.com/watch?v=y | Buoyancy & Floating | Mech. |
| | YYzEdJHkak | | Engg. |
| | https://www.youtube.com/watch?v=n | | |
| | MIXU97E-uQ | | |
| | https://www.youtube.com/watch?v=2 | | |
| | RefIvqaYg8 | | |
| | https://www.youtube.com/watch?v=k | | |
| | hc2wUBsFU4 | | |
| | Nidasoshi-501 236 Tao | ı: Hukkeri, Dist: Belagavi, Karnataka, India. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

| https://www.youtube.com/watch?v= W5vv6hTMrFo https://www.youtube.com/watch?v=0 UgXP2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKOs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C yWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=E gY38h2LDeo https://www.youtube.com/watch?v=F gY38h2LDeo https://www.youtube.com/watch?v=X | |
|--|--------|
| https://www.youtube.com/watch?v= p-hwElkrlk https://www.youtube.com/watch?v=Q Ugxf2Rj2YQ https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXkg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa37DnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Mc En Mc | |
| p-hwElkrlk https://www.youtube.com/watch?v=Q UgXf2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C yWrkxzCiaY https://www.youtube.com/watch?v=l 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=Q UgXf2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| UgXf2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3ygsp4yKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=g MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 KTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1Pb0XKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=g MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 KTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Mc En | |
| Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=6 KTvQEMwOffM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKOs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=E gY38h2LDeo | |
| XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=g MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| 3ygsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Me En | |
| https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=l 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Me En | |
| https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| wWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Motorial Flow Types of Fluid Flow Motorial Flow En | |
| https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow En | |
| 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow En Metroscopic Structure of Fluid Flow Met | |
| https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow En Additional Flow En Types of Fluid Flow En En Types of Fluid Flow En En Types of Fluid Flow En | |
| 37. https://www.youtube.com/watch?v=gr https://www.youtube.com/watch?v=n https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gy38h2LDeo | |
| 37. https://www.youtube.com/watch?v=gr | |
| MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | 1 |
| https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | igg. |
| https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=F gY38h2LDeo | |
| gY38h2LDeo | |
| | |
| | |
| Z7CqISBIfE | |
| https://www.youtube.com/watch?v=5 | |
| 6AyTIhNQBo | |
| https://www.youtube.com/watch?v=F | |
| <u>ZYnewBWUoc</u> | |
| 38. <u>https://www.youtube.com/watch?v=E</u> Fluid Deformations Me | ech. |
| 8yPWd-DwcQ En | ngg. |
| https://www.youtube.com/watch?v=9 | |
| <u>6fYQFPGwzU</u> | |
| https://www.youtube.com/watch?v=c | |
| 6ndD5kTkP4 | |
| https://www.youtube.com/watch?v=H | |
| 9u8O4osE0g | |
| https://www.youtube.com/watch?v=v | |
| C569UD49yA | |
| 39. https://www.youtube.com/channel/U Continuity Equation Me | a a la |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC
Academics
Pedagogy &
e-Resources

| | <u>CkDw-</u> | | Engg. |
|-----|------------------------------------|--|-------|
| | LPU1Nnd2WRsfnDbUcA?v=lN20Vr | | |
| | <u>Pmxdk</u> | | |
| | https://www.youtube.com/watch?v=jn | | |
| | <u>g6cW9r0w</u> | | |
| | https://www.youtube.com/watch?v= | | |
| | WGuzqF2GCBg | | |
| | https://www.youtube.com/watch?v=y | | |
| | cgJvnm24ks | | |
| | https://www.youtube.com/watch?v=8 | | |
| | wM7_vgBSQA | | |
| 40. | https://www.youtube.com/watch?v=U | Bernoulli's Equation | Mech. |
| | J3-Zm1wbIQ | | Engg. |
| | https://www.youtube.com/watch?v=b | | |
| | C8v6hlXnSk | | |
| | https://www.youtube.com/watch?v=m | | |
| | geIWXld9FU | | |
| | https://www.youtube.com/watch?v=8 | | |
| | vqMotb6m3c | | |
| | https://www.youtube.com/watch?v=Y | | |
| | yeX6ArxCYI | | |
| | https://www.youtube.com/watch?v=br | | |
| | N9citH0RA | | |
| | https://www.youtube.com/watch?v=O | | |
| | 8qCA2mZvVI | | |
| | https://www.youtube.com/watch?v=U | | |
| | xYH41vV-DI | | |
| 41. | https://www.youtube.com/watch?v=J | N-S equations & Applications like | Mech. |
| | H3l-NliCkM | CoutteandHagen- Poiseuille Flows | Engg. |
| | https://www.youtube.com/watch?v=v | _ | |
| | xJrb7JKigQ | | |
| | https://www.youtube.com/watch?v=5 | | |
| | w4cJBdFHFw | | |
| | https://www.youtube.com/watch?v=b | | |
| | 5CwH5AlCkw | | |
| | https://www.youtube.com/watch?v=q | | |
| | CosEM9h0AU | | |
| | https://www.youtube.com/watch?v=k | | |
| | 7ZZtxdtmeQ | | |
| | https://www.youtube.com/watch?v=z | | |
| | MfssrddyRU | | |
| | https://www.youtube.com/watch?v=G | | |
| | 3bO8RcRgxQ | | |
| | https://www.youtube.com/watch?v=x | | |
| | wyssfQ6oVc | | |
| | https://www.youtube.com/watch?v= | | |
| | hvgvZuIZOc | | |
| | https://www.youtube.com/watch?v=6 | | |
| | zoOBwI5BEY | | |
| | | : Hukkeri. Dist: Belagavi. Karnataka. India. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

| 42. | https://www.youtube.com/watch?v=6 | Losses in Pipe-flow | Mech. |
|-----|------------------------------------|---|--------|
| | <u>DFe8eUrbcI</u> | | Engg. |
| | https://www.youtube.com/watch?v=G | | |
| | 4rbUtAxgHM | | |
| | https://www.youtube.com/watch?v=U | | |
| | flurPbj-UA | | |
| | https://www.youtube.com/watch?v=k | | |
| | JlJoAKveJA | | |
| | https://www.youtube.com/watch?v=D | | |
| | 8I9JvlvZuQ | | |
| | https://www.youtube.com/watch?v=jb | | |
| | RkpXEJO64 | | |
| | https://www.youtube.com/watch?v=T | | |
| | KMPpcxSER4 | | |
| 43. | | Lift and Drag Forces | Mech. |
| 15. | tiFEei3AI | Bit and Brag 1 orees | Engg. |
| | https://www.youtube.com/watch?v=9 | | Lings. |
| | xhJ0-OROg | | |
| | https://www.youtube.com/watch?v=w | | |
| | 78JT6azrZU | | |
| | https://www.youtube.com/watch?v=F | | |
| | ev8FWVcC-A | | |
| | https://www.youtube.com/watch?v=g | | |
| | sUlaQ6IxSU | | |
| | https://www.youtube.com/watch?v=O | | |
| | 0TBcasl8u0 | | |
| | https://www.youtube.com/watch?v=A | | |
| | XiThF1LXU | | |
| | https://www.youtube.com/watch?v=S | | |
| | 1kU6sSefr0 | | |
| | | | |
| | https://www.youtube.com/watch?v=Z | | |
| | bD0Ebc8RGg | | |
| | https://www.youtube.com/watch?v=8 | | |
| | pp47Y8dLJk | | |
| | https://www.youtube.com/watch?v=Ft | | |
| | j6A2P7lmw | | |
| | https://www.youtube.com/watch?v=dj | | |
| 1.1 | CCno4Cbcw | Ctroomline and Dluff Dadu | Mech. |
| 44. | - | Streamline and Bluff Body | |
| | HXkouhw758 | | Engg. |
| | https://www.youtube.com/watch?v=B | | |
| | J96HCVTTew | | |
| | https://www.youtube.com/watch?v=A | | |
| | kBn-lpWgVs | | |
| 45. | - | Mach No. and Supersonic, Subsonic Flows | Mech. |
| | BJ3tXCjzN0 | | Engg. |
| | https://www.youtube.com/watch?v=X | | |
| | 871jMv0aKk | | |
| | https://www.youtube.com/watch?v=B | | |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

| | Ta | | T |
|-----|--|----------------------|----------|
| | hqo6ne6Y_A | | |
| | https://www.youtube.com/watch?v=x | | |
| | sp0kGrwXW4 | | |
| | https://www.youtube.com/watch?v=P | | |
| | Tc0yftUA2c | | |
| | https://www.youtube.com/watch?v=fx | | |
| | eQOQSmqRs https://www.youtube.com/watch?v= | | |
| | W9dhUPkFBR8 | | |
| | https://www.youtube.com/watch?v=V | | |
| | laGxYjnoPY | | |
| | https://www.youtube.com/watch?v=1 | | |
| | m3 dx2E4Z8 | | |
| | https://www.youtube.com/watch?v=u | | |
| | gPJYJ-BKkU | | |
| | https://www.youtube.com/watch?v=Ii | | |
| | <u>V3cPADCgg</u> | | |
| | https://www.youtube.com/watch?v=X | | |
| | <u>sntPXYOgpQ</u> | | |
| | https://www.youtube.com/watch?v=rr | | |
| | Cs-KYZ57Y | | |
| 46. | | CFD Applications | Mech. |
| | USG6SMsn10 | | Engg. |
| | https://www.youtube.com/watch?v=lt | | |
| | pSEn-vQS8 https://www.youtube.com/watch?v=B | | |
| | -z54jx8u5k | | |
| | https://www.youtube.com/watch?v=h | | |
| | zTCCcsOTg8 | | |
| 47. | | Fluid Statics | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur.htm | | |
| | 111/020Kanput.iitiii | | |
| 48. | file:///D:/Department/SUBJECTS/Flui | Kinematics of Fluids | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur1.htm | | |
| | 111 /0 20 Kanpur 1. nulli | | |
| 49. | file:///D:/Department/SUBJECTS/Flui | Equations of Motion | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT% 20Kanpur3.htm | | |
| | 111/0201xmput3.nun | | |
| | 1 | | <u> </u> |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy & e-Resources

| 50 | file:///D:/Deportment/GLDIECTG/E1-: | Dimensional Analysis | Maala |
|-----|--|---|--------|
| 50. | file:///D:/Department/SUBJECTS/Fluid%20Mechanics/Fluid%20Mechanics | Dimensional Analysis | Mech. |
| | %20Notes/fluid%20mechanics%20N | | Engg. |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20KAnpur4.htm | | |
| 51. | file:///D:/Department/SUBJECTS/Flui | Ideal Flow | Mech. |
| 31. | d%20Mechanics/Fluid%20Mechanics | rucai i iow | Engg. |
| | | | Lings. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur5.htm | | |
| 52. | file:///D:/Department/SUBJECTS/Flui | Viscous Incompressible flow | Mech. |
| 52. | d%20Mechanics/Fluid%20Mechanics | wiscous meompressione now | Engg. |
| | %20Notes/fluid%20mechanics%20N | | 88 |
| | | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | <u>IIT%20Kanpur6.htm</u> | | |
| 53. | file:///D:/Department/SUBJECTS/Flui | Flow over flat plate and Boundary Layer | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | Equations | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur7.htm | | |
| | ii i /o Bortang ar / man | | |
| 54. | file:///D:/Department/SUBJECTS/Flui | Flow through pipes | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur9.htm | | |
| | - | | |
| 55. | file:///D:/Department/SUBJECTS/Flui | Compressible flow | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur10.htm | | |
| | * | | |
| 56. | , 1 | Fluid Mechanics | Mech. |
| | supplied and solved in the class. | | Engg. |
| | 2) Notes has been supplied to the | | |
| | students. | | |
| | 3) The soft and hard copies of VTU | | |
| | question papers provided to the students. | | |
| | students. | | |
| | | | 1 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics Pedagogy & e-Resources Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE AY:2022-23

List of Pedagogical Initiatives and Innovative Teaching aids used by the teachers to promote experiential learning among the students (2018-19 to 2023-24)

| S.N. | Faculty Name | Pedagogical initiatives and Innovative teaching aids | Course/Topic | Branch |
|------|-----------------------|--|--|--------|
| 1 | Prof. S. S. Kamate | Models are prepared to teach the basics of coordinate systems. | Concept of Spherical Coordinate System, Cylindrical Coordinate Sytem& Cartesian Coordinate Sstem https://youtu.be/CW3WaE798dU | ECE |
| 2 | Prof. P. V. Patil | Concept of Superposition Theorem | Network Theory https://youtu.be/bLqBJCdZgjY | ECE |

List of online resources & Web links(2018-19 to 2023-24)

| S.N. | Faculty Name | Online resources | Web links | Branch |
|------|-------------------|-----------------------------|-------------------------------|--------|
| 1 | Prof. S. S. Patil | Introduction to Embedded | https://www.youtube.com/watch | ECE |
| | | Systems | ?v=OG91AlP_2XA | |
| | | The Typical Embedded | https://www.youtube.com/watch | ECE |
| | | Systems | ?v=glEPCAZmcvA | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=0vO14GLGRUs | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=bKPCxj0hiiw | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=aPgZpxQijJ0 | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=XZ8hClk0uSQ | |
| | | Characteristics and Quality | https://www.youtube.com/watch | ECE |
| | | Attributes of Embedded | ?v=jbdtPYtGeY0 | |
| | | Systems | | |
| | | Embedded Systems- | https://www.youtube.com/watch | ECE |
| | | Application and domain | ?v=hiljMGpCAno | |
| | | specific | | |
| | | Hardware Software Co-design | https://www.youtube.com/watch | ECE |
| | | and Program modeling | ?v=J-beEbEPNSY | |
| | | Embedded Firmware Design | https://www.youtube.com/watch | ECE |
| | | and Development | ?v=huBPGmYj138 | |
| | | Real-Time Operating | https://www.youtube.com/watch | ECE |
| | | System(RTOS) based ES | ?v=qLxEeRpFtUo | |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in **IQAC**

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Pedagogy &
e-Resources
AY:2022-23

| | | design | https://www.youtube.com/watch ?v=4RHxzX49vRU | ECE |
|---|-----------------------|---|--|-----|
| | | | https://www.youtube.com/watch ?v=9WhPUnwALdc | ECE |
| | | | https://www.youtube.com/watch ?v=MgfvdUNTo6o | ECE |
| | | | https://www.youtube.com/watch ?v=FsJh0b_KWGM | ECE |
| 2 | Dr.S.S. Ittannavar | Gram Schmidt Orthogonalization Procedure | Digital Communication https://www.youtube.com/watch? v=HX4EMJqdeZI | ECE |
| 3 | Prof.S.S. Malaj | Introduction to Control Problem concepts of Stability | Control Systems https://youtube.com/watch?v=vV FDm_CdQw | ECE |
| 4 | Prof.P.V. Patil | Microcontroller | https://onlinecourses.nptel.ac.in/n oc24_ee46/preview | ECE |
| 5 | Prof.P.V. Patil | Microcontroller | https://youtube.com/playlist?list= PLcwp2fRcIXJUFthj5CKNNam SBDtf3We7A&si=4Xyi62FhRWj vuMz_ | ECE |

E-resource

| S.N. | ICT enabled tools, Video lectures, e-resource etc | Course/ Topic | Dept. |
|------|--|-----------------|-------|
| 1. | https://nptel.ac.in/courses/108102095/ | • | |
| 2. | https://youtu.be/l6M6FvjUdTI | | |
| 3. | https://youtu.be/c3oKdjDImXo | | |
| 4. | https://youtu.be/jaOxeB-BQ8E | | |
| 5. | https://youtu.be/6Zm9Kt5-cxQ | Analog | |
| 6. | https://youtu.be/iLCQUHJkFM8 | Electronic | |
| 7. | https://youtu.be/SpvmeG1hs7k | Circuits | |
| 8. | https://youtu.be/0K6vyowDAKM | | EEE |
| 9. | https://youtu.be/Sr-Sm_d3oVE | | EEE |
| 10. | https://youtu.be/Pe6BmuAc2OY | | |
| 11. | https://youtu.be/btphIK1d4Ro | | |
| 12. | http://nptel.vtu.ac.in/econtent/courses/EEE/15EE32/index.php | Network | |
| 13. | http://nptel.vtu.ac.in/econtent/courses/ECE/15EC34/index.php | Analysis | |
| 14. | https://www.youtube.com/watch?v=3rOvQ3qFZpI | Measurements | |
| 15. | https://www.youtube.com/watch?v=EWTPvrJQG 4 | and | |
| 16. | https://www.youtube.com/watch?v=jyRT2dJAuAg | Instrumentation | |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in

THE STATE OF THE S

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| 17. | https://www.youtube.com/watch?v=u5lh_nyCXEs | | |
|-----|---|-----------------|-----|
| 18. | https://www.youtube.com/watch?v=xX2YjPwZY-g | | |
| 19. | https://www.youtube.com/watch?v=jlPzA95zXKs | | |
| 20. | https://www.youtube.com/watch?v=KsykW43-g24 | | |
| 21. | https://www.youtube.com/watch?v=wO6Eh r8IEs | | |
| 22. | https://www.youtube.com/watch?v=-orsmxHOLOM | | |
| 23. | https://www.youtube.com/watch?v=Bf3547WB5qs | | |
| 24. | https://www.youtube.com/watch?v=SNMI2skCOpQ | | |
| 25. | https://www.youtube.com/watch?v=uy9lZCdkQIM&list=P | | |
| 26. | https://www.youtube.com/watch?v=Yg6XsepGCKY&list= | Electrical | |
| | PLD4ED2FAF3C155625&index=2 | Power | |
| 27. | https://www.youtube.com/watch?v=45_nQN- | Generation | |
| | 9XSs&list=PLD4ED2FAF3C155625&index=3 | | |
| 28. | https://www.youtube.com/watch?v=MqWeH3zp5GY&list | | |
| | <u>=PLXgxwcpUnIG-EvGsehcV8Rj7VZcsd1JYB</u> | | |
| 29. | https://www.youtube.com/watch?v=liRPtvj7bFU&list=PL692A7B9169 | Micro | |
| | <u>289C4F</u> | controller | |
| 30. | https://www.youtube.com/watch?v=zXMklO-jxIo | controller | |
| 31. | https://www.youtube.com/watch?v=EEaOR2p9G2k | | |
| 32. | https://www.youtube.com/watch?v=pA6K5NgWTow | | |
| 33. | https://www.youtube.com/watch?v=1Auay7ja2oY&list=PL6D4C86948 7881352 | | |
| 34. | https://www.youtube.com/watch?v=PEg0zb3cg2A&list=PL6D4C8694 | | |
| 34. | 87881352&index=2 | | |
| 35. | https://www.youtube.com/watch?v=p 4j x4ZyzM&list=PL6D4C8694 | | |
| | 87881352&index=3 | Power | |
| 36. | https://www.youtube.com/watch?v=QqFlHhSkayw&list=PL6D4C8694 | Electronics | |
| 27 | 87881352&index=4 | | |
| 37. | https://www.youtube.com/watch?v=R- | | |
| 38. | ZGu5KAF90&list=PL6D4C869487881352&index=5 https://www.youtube.com/watch?v=ZYzuUWypgVw&list=PL6D4C86 | | |
| 36. | 9487881352&index=9 | | |
| 39. | https://youtu.be/gmcriUdYBW0?list=PL59861DBF8EC85491 | | |
| 40. | https://youtu.be/KOE_ec-MkAA?list=PL59861DBF8EC85491 | | |
| 41. | https://youtu.be/cneuckplrtI?list=PL59861DBF8EC85491 | Transformer & | |
| 42. | https://youtu.be/pNTsowZYUSs?list=PL59861DBF8EC85 | Induction | |
| 43. | https://youtu.be/dZyO5gcWP- | Machines | |
| | o?list=PLLQiBbMXygz7zALKpbP87g4QaS9YGesZ5 | | |
| 44. | http://www.nptelvideos.in/2012/12/signals-and-system.html | Signals and | |
| 45. | https://www.youtube.com/watch?v=xrVWB9VYZ64&list=PLq- | Systems | EEE |
| | Gm0yRYwTjwxaqapPsSAHzs4_nkQLVr | | |
| 46. | https://www.youtube.com/watch?v=879pXoml0XI | | |
| 47. | https://youtu.be/NiHPu5PltCY?list=PL59861DBF8EC85491 | D.C. Machines | |
| 48. | https://youtu.be/E15Xs-5rFS0?list=PL59861DBF8EC85491 | and Synch. | |
| 49. | https://youtu.be/b24jORRoxEc | Machines | |
| 50. | https://youtu.be/o9-xSeWuhng?list=PL59861DBF8EC85491 | | |
| 51. | https://www.youtube.com/watch?v=ZjcLlHcsDZs | Linear IC's and | |
| | | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 52. | https://www.youtube.com/watch?v=egCiRSasxpw | Applications | |
|-----|---|----------------|--|
| 53. | https://www.youtube.com/watch?v=TQlyLhOFyKI | | |
| 54. | https://www.youtube.com/watch?v=gbUXbaxvX94 | | |
| 55. | https://pt.coursera.org/lecture/electronics/3-2-first-order-highpass- | | |
| | <u>filters-OhCWF</u> | | |
| 56. | https://www.youtube.com/watch?v=gEeF8sEQTEc | | |
| 57. | https://www.youtube.com/watch?v=vVfLRM2DgLY | High Voltage | |
| 58. | https://www.youtube.com/watch?v=yP7OACmLP48 | Engg. | |
| 59. | https://www.youtube.com/watch?v=1bkiWJKxkfo | | |
| 60. | https://www.youtube.com/watch?v=aMux1jYFFY8&list=PLc259Dvju | | |
| | XMDo8n BFwoNwAagCxPL0dDk&index=5&t=0s | | |
| 61. | https://www.youtube.com/watch?v=3aQsJYZaw_U | | |
| 62. | https://www.youtube.com/watch?v=PKXPeTvmVQg | | |
| 63. | https://www.youtube.com/watch?v=CODhHSpWp3k | | |
| | | | |
| 64. | https://nptel.ac.in/courses/108104052/ | Power System | |
| | | Operation and | |
| 65. | https://www.youtube.com/watch?%2049EM82UO99c | Control | |
| | | | |
| 66. | https://nptel.ac.in/courses/11210422/22 | Renewable | |
| | | Energy sources | |
| 67. | https://nptel.ac.in/courses/18105058/37 | | |
| | | | |
| 68. | https://www.youtube.com/wtch?v=GRwJqD4StEU | | |
| | 40007040 | | |
| 69. | https://nptel.ac.in/courses/10805060/ | Electrical | |
| | | Power | |
| 70. | https://nptel.ac.in/courses/11314008/38 | Utilization | |
| | | | |

List of Pedagogical Initiatives and Innovative Teaching aids used by the teachers to promote experiential learning among the students

AY: 2018-19

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|--|---|-------|
| 01 | ICT Enabled Tools: PPT | Management & Entrepreneurship for IT Industry | CSE |
| 02 | ICT Enabled Tools: PPT, Notes | Automata Theory & Computability | CSE |
| 03 | ICT Enabled Tools: Notes | Data Structures & Application | CSE |
| 04 | ICT Enabled Tools: PPT, Notes | Cloud Computing & Its Application | CSE |
| 05 | ICT Enabled Tools: PPT, Notes | Advanced Java and J2EE | CSE |
| 06 | ICT Enabled Tools: PPT | Computer Organization | CSE |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC
Academics
Pedagogy & e-Resources
AY:2022-23

| 07 | ICT Enabled Tools: PPT, Notes | Computer Programming & Solving | CSE |
|----|-------------------------------|--|-----|
| 08 | ICT Enabled Tools: PPT, Notes | .Net Framework For Application Development | CSE |
| 09 | ICT Enabled Tools: Notes | Discrete Mathematical Structure | CSE |
| 10 | ICT Enabled Tools: PPT, Notes | Web Technology & Its Applications | CSE |
| 11 | ICT Enabled Tools: Notes | Introduction to Software Testing | CSE |
| 12 | ICT Enabled Tools: PPT, Notes | Machine Learning | CSE |
| 13 | ICT Enabled Tools: PPT, Notes | Unix Shell Programming | CSE |
| 14 | ICT Enabled Tools: PPT, Notes | Database Management Systems | CSE |
| 15 | ICT Enabled Tools: PPT, Notes | Storage Area Networks | CSE |
| 16 | ICT Enabled Tools: PPT, Notes | Computer Networks | CSE |
| 17 | ICT Enabled Tools: PPT, Notes | C Programming for Problem Solving | CSE |

AY: 2019-20

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|--|---|-------|
| 01 | ICT Enabled Tools: PPT | Management & Entrepreneurship for IT Industry | CSE |
| 02 | ICT Enabled Tools: PPT, Notes | Automata Theory & Computability | CSE |
| 03 | ICT Enabled Tools: Notes | Data Structures & Application | CSE |
| 04 | ICT Enabled Tools: PPT, Notes | Cloud Computing & Its Application | CSE |
| 05 | ICT Enabled Tools: PPT, Notes | Advanced Java and J2EE | CSE |
| 06 | ICT Enabled Tools: PPT | Computer Organization | CSE |
| 07 | ICT Enabled Tools: PPT, Notes | Computer Programming & Solving | CSE |
| 08 | ICT Enabled Tools: PPT, Notes | .Net Framework For Application Development | CSE |
| 09 | ICT Enabled Tools: Notes | Discrete Mathematical Structure | CSE |
| 10 | ICT Enabled Tools: PPT, Notes | Web Technology & Its Applications | CSE |
| 11 | ICT Enabled Tools: Notes | Introduction to Software Testing | CSE |
| 12 | ICT Enabled Tools: PPT, Notes | Machine Learning | CSE |
| 13 | ICT Enabled Tools: PPT, Notes | Unix Shell Programming | CSE |
| 14 | ICT Enabled Tools: PPT, Notes | Database Management Systems | CSE |
| 15 | ICT Enabled Tools: PPT, Notes | Storage Area Networks | CSE |
| 16 | ICT Enabled Tools: PPT, Notes | Computer Networks | CSE |
| 17 | ICT Enabled Tools: PPT, Notes | C Programming for Problem Solving | CSE |

AY: 2020-21

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|---|---|-------|
| 01 | Models / Charts | Computer Graphics Lab with Mini Projects(Recursive subdivision of tetrahendra to form 3D sierpinski gasket) | CSE |
| 02 | ICT Enabled Tools: Simulation | Application Development using Python Programming (Function Definition & Function Call) | CSE |

00000 Employee

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Pedagogy &
e-Resources
AY:2022-23

AY: 2021-22

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|---|---|-------|
| 01 | Video Lectures | Big Data Analytics (Decision Trees) | CSE |
| 02 | ICT Enabled Tools: PPT | Data Mining & Ware Housing (Apache Pig) | CSE |
| 03 | ICT Enabled Tools: PPT | Big Data Analytics(Decision Trees) | CSE |
| 04 | ICT Enabled Tools: PPT | System Software and Compilers (Introduction to Compilers andLexical Analysis) | CSE |
| 05 | ICT Enabled Tools: PPT | Object Oriented Concepts (Objects and Arrays C++ Part) | CSE |
| 06 | NPTEL Video Lectures | System Software and Compilers (Parsing) | CSE |
| 07 | Models / Charts | Data Mining and Data Warehousing (OLAP Operations) | CSE |
| 08 | NPTEL Video Lectures | Web Technology and it's Applications (HTML Forms) | CSE |
| 09 | NPTEL Video Lectures | Application Development Using Python (Exception Handling and Strings) | CSE |
| 10 | Models / Charts | Artificial Intelligence and Machine Learning (Machine Learning Process and Types) | CSE |
| 11 | NPTEL Video Lectures | Computer Networks and Security (Universal Hashing) | CSE |
| 12 | NPTEL Video Lectures | Big Data Analytics (Mongo DB) | CSE |
| 13 | Models / Charts | Big Data Analytics (Apache Hadoop Ecosystem) | CSE |
| 14 | NPTEL Video Lectures | Management & Entrepreneurship for IT Industry (Entrepreneurship and Employment) | CSE |
| 15 | Models / Charts | Management & Entrepreneurship for IT Industry (Corporate/Social Entrepreneur) | CSE |
| 16 | Models / Charts | Computer Networks & Security (Network Security Mechanisms) | CSE |

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|---|---|-------|
| 01 | Models/ Charts | Database Management Systems (Three Schema Architecture) | CSE |
| 02 | Models/ Charts | Cryptography (Data Encryption Standard) | CSE |
| 03 | ICT Enabled Tools : Technical Session | Python Application Programming (Setting up Python Environment to create, run and bug) | CSE |
| 04 | Models/ Charts | Python Application Programming (Cheat Sheets of Python) | CSE |
| 05 | NPTEL Video Lectures | Web Technology & Its Applications (HTML Forms) | CSE |
| 06 | NPTEL Video Lectures | Design & Analysis of Algorithms (Greedy Method) | CSE |
| 07 | NPTEL Video Lectures | Web Technology & Its Applications (Sate in Web Applications) | CSE |
| 08 | Models/ Charts | Design & Analysis of Algorithms (Backtracking) | CSE |



SJPN Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Academics Pedagogy & e-Resources

IQAC

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| AY:2022-23 | |
|------------|--|
| AI.LULL-LJ | |

| 09 | Models/ Charts | Storage Area Networks | CSE |
|----|---|---|-----|
| 10 | Models/ Charts | Computer Graphics & Visualization (OpenGL Primitives, CG Components, 2D Transformations) | CSE |
| 11 | Models/ Charts | Operating System (Types, Components, Scheduling and Deadlock) | |
| 12 | Models/ Charts | Programming in Java (Cheat Sheets of Java) | |
| 13 | ICT Enabled Tools: Technical Session Programming in Java (Setting up Java JDK Environment to create, run and debug) | | CSE |
| 14 | Models/ Charts Introduction to Python Programming (Visual execution of python programs) | | CSE |
| 15 | Models/ Charts | Principles of programming using C (Visual avanution of | |
| 16 | Tool Demonstration | Data Mining & Data Warehousing (Data Visualization Tool Tableau Desktop) | CSE |
| 17 | Tool Demonstration | Big Data Analytics (Apache Hive) | |
| 18 | NPTEL Video Lectures | Principles of C Programming (Structures & Pointers) | |
| 19 | Models/ Charts | Principles of C Programming (Simulation of Searching & Sorting Techniques) | |
| 20 | Models / Charts | Principles of C Programming (Visualize the execution of C Programs) | CSE |
| 21 | Models / Charts | Unix Programming (UNIX System Architecture) | CSE |
| 22 | NPTEL Video Lectures | Unix Programming (File System in UNIX) | CSE |
| 23 | Models / Charts | System Software & Compilers (Phases of Compiler) | CSE |
| 24 | NPTEL Video Lectures | Compiler Design (Syntax Directed Translation) | CSE |
| 25 | Models / Charts | Introduction to Python Programming (Demonstrate & | |
| 26 | NPTEL Video Lectures | Data Structures & Applications (Arrays) | |
| 27 | Models / Charts Data Structures & Applications (Arrays) Data Structures & Applications (Tower of Hanoi Problem) | | CSE |
| 28 | NPTEL Video Lectures | Automata Theory & Computability (Turing Machines) | CSE |

Dr.S.N.Topannavar

Hirasugar Institute of Technology
Nidasoshi-591236

Nidasoshi Pin:591236 Pin:591236

Dr.S.C.Kamate
Principal
PRINCIPAL
Hirasugar Institute of Technology
Nidasoshi-591 236



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC
Academics
Web links

AY:2023-24

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGG.

ICT Facilities

Department: Electronics & Communication Engineering

| Sl. No | Location | ICT Facilities and tools available |
|--------|-----------------|--------------------------------------|
| 1. | Class rooms | 1.D210: Projector, Screen. |
| 2. | Seminar Hall | 1.C304: Projector, Screen, Computer |
| 3. | Research Center | 1.D 309: Projector, Screen, Computer |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

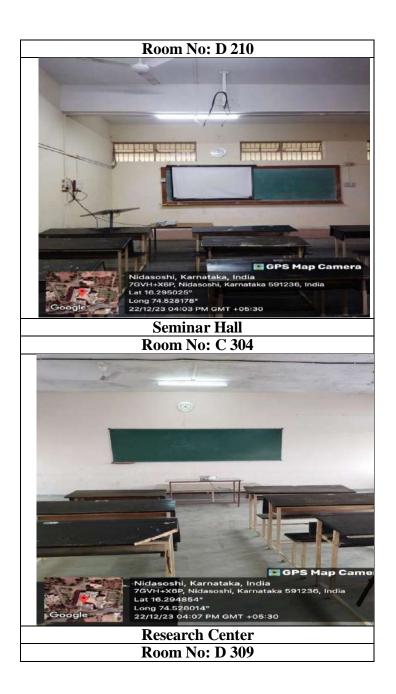
Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics

Web links AY:2023-24

Photos:





S J P N Trust's Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics

Web links

AY:2023-24



A.TEACHING METHODS:

HSIT faculty effectively uses ICT enabled teaching learning tools for content delivery and learning. This helps to explore, analyze, exchange and present information responsibly and without discrimination from a wide range of people, communities, and cultures. The institute has adequate facilities and resources forproviding interactive, engaging, flexible and user-friendly ICT enabled learning environments for the learners. Classrooms and Seminar halls are equipped with LCD projectors, internet/Wi-Fi connectivity and Smart classrooms are also available for the delivery of digital/multimedia contents. Academic processes are carried through ERP. ERP and Google Classroom are used by faculty to provide assignments and for sharing the learning resources. Google Meet/Zoom is used by faculty members for content delivery especially during pandemic. Various e-learning resources such as subject specific web resources, Swayam/NPTEL platform, MOOC platforms are employed for self-directed learning. The ICT enabled learning environment with innovative pedagogy techniques has facilitated collaborative learning, open and flexible delivery of the contents and has enhanced the students' ability to learn, think, create, and communicate.



SJPN Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC Academics

Web links

AY:2023-24

B. LEARNING METHODS:

Institute has adopted several practices which are exclusively student centric and also helps them in advanced learning like experimental learning, Participating learning and enhancement of problem-solving skills.

Experimental Learning:

Students are encouraged to conduct experiment individually in the laboratories to realize the theoretical concepts. Students undergoes industrial internships during vacation through institution, Industrial visits are organized regularly for better understanding of full scale working of Engineering processes and machineries, Students are supported to select projects to address community, industrial and environmental Issues during final year for better understanding of real time problems and applying Engineering knowledge for resolving.

Participate Learning:

Every department encourages students to participate in co-curricular activities like Mini/Hobby project competition and Seminar on Innovation in Engineering and Technology. Also department organizes such events frequently through staff and student association (ECSA) in addition to this the Institute organizes HSIT Quest every year which is a National Level technical event. In addition to outstation students, our students of all department and all semesters take part in this Mega event. The event of HSIT Quest include Paper Presentation, Technical Quiz, Program coding, Trouble- Shooting, Robe-Race competition etc. The institute providing financial support to the students for attending state level project competition, conferences, workshops etc. The department also conduct hands on workshop for students to enhance their learning skills. The learning method is made student centric through cooperative learning through interdisciplinary projects.



Hirasugar Institute of Technology, Nidasoshi

Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC Academics

AY:2023-24

Web links

Problem solving:

The students are supported to take part in competition like Smart India Hackathon organized by All India Council for Technical Education, New Delhi, and 'Anveshana' a project competition organized by Agastya International Foundation every year which enhances the problem-solving ability, The Institution provides platform for students to make use of modelling and simulation tools in the laboratories for solving complex Engineering problems.

C.USE OF VARIOUS INSTRUCTIONAL METHODS AND PEDAGOGICAL INITIATIVES

Institute practices blended teaching learning processes from chalk-to talk to smart board. Students are also encouraged to interact during the lecture hour and beyond class room hours to get their doubts cleared. The Institute is equipped with state-of-art teaching learning processes a few of them are;

- > Use of ICT in teaching and learning
- ➤ Teaching with working demo/ models
- > Teaching with charts
- > Demonstration of Engineering Concepts through live projects
- ➤ Organizing Expert talks from academicians/Industry experts
- > Use of International Journal available online in VTU consortium as & when required to expose in recent innovation & development for higher semester students.
- > Revision for all theory and practical courses after completion of each modules
- ➤ Faculty members are making use of sources like National Programme on Technology Enhanced Learning(NPTEL)
- > Internet sources
- > Important Websites to understand basics working methodology of Process and system, mechanisms and flow diagrams
- ➤ Interactive Learning
- ➤ Interdisciplinary Learning



S J P N Trust's Hirasugar Institute of Technology, Nidasoshi

Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC
Academics
Web links

AY:2023-24

Instruction method and Interactive learning:

The faculty use chalk and board, audio visual aids, real world examples, charts & models in teaching as teaching aids to bring the quality in institutional methods such that the students can easily understand the typical and complex concepts. Students are also encouraged to actually interact during the lecture hours and beyond class room hours by getting the doubts clarified.

Computer- assisted learning:

The department has required number of computer, printer, LCD projectors, application software's and system software's with Wi-Fi connections. These resources are effectively used for(i) Final year projects/ mini projects(ii) Guiding the interested and slow learners in critical subjects in extra hours,(iii) Guiding the students to search the relevant technical article/study materials through the various links in websites.(iv) Searching e- journal in particular field/area of interest on regular time basis(v) Conducting departmental smart learning activities under department association

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC
Academics
Web links

AY:2023-24

List of ICT- enabled tools including online resources, Pedagogical Initiatives, and Teaching-aids used for effective teaching and learning process

VTU Board of Studies (BoS) recommended e-Resources (Web links, Video Lectures, MOOCs, e-Shikhsana Program, NPTEL, EDUSAT, YouTube, Vlab etc.), (2023-24)

| S.N. | Faculty | Course | VTU Syllabus link where e- | e-Resource | Branch |
|------|--------------------------|--|--|---|--------|
| | Name | | resources are mentioned | | |
| 1 | Prof.S.S. Malaj | Basic Electronics | https://vtu.ac.in/pdf/2022syll/BB EE203.pdf | https://nptel.ac.in/courses/ 122106025 | ECE |
| 2 | Prof.S.S. Malaj | Basic Electronics | https://vtu.ac.in/pdf/2022syll/BB EE203.pdf | https://nptel.ac.in/courses/ 108105132 https://nptel.ac.in/courses/ | ECE |
| | | | | 117104072 | |
| 3 | Prof.S.S. Malaj | Introduction to Internet of Things | https://vtu.ac.in/pdf/2022syll/BE TCK105H.pdf | https://nptel.ac.in/noc/cour ses/noc19/sem1/noc19- cs31 | ECE |
| 4 | Prof. D. B. Madihalli | Introduction to Python Programming | BPLCK105B.pdf (vtu.ac.in) | Learn Python by Examples: https://www.learnbyexample.org/python/ https://www.learnpython.org | ECE |
| | | | | https://pythontutor.com/vis | |
| 5 | Prof.S.S. Malaj | Basic Electronics and communicati on Engineering | https://vtu.ac.in/pdf/2021syll/21el n24.pdf | <u>ualize.html#mode=edit</u> <u>https://doi.org/10.4324/978</u> <u>1315737980.BookISBN97</u> <u>81315737980</u> | ECE |
| 6 | Dr.S.S. Ittannavar | Basic Signal Processing | https://vtu.ac.in/pdf/2021syll/ecsc hsyll.pdf | https://www.youtube.com/watch?v=KJnAy6hzetw&list=PL41692B571DD0AF9B https://www.youtube.com/watch?v=ZK3O402wf1c&list=PL49CF3715CB9EF31D&index=1 | ECE |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in

10000 m

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC
Academics
Web links
AY:2023-24

Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| 7 | Dr.S.S. Ittannavar | Digital Signal Processing | https://vtu.ac.in/pdf/2021syll/ecsc hsyll.pdf | https://nptel.ac.in/courses/ 117102060 | ECE |
|----|-----------------------|---|---|--|-----|
| 8 | Dr.S.S.I ttannavar | Digital Communicati on | https://vtu.ac.in/pdf/2021syll/ecsc hsyll.pdf | https://nptel.ac.in/courses/ 108102096 | ECE |
| 9 | Dr.S.S. Ittannavar | Multimedia Communicati on | https://vtu.ac.in/pdf/2018syll/ec.p df | https://www.youtube.com/ watch?v=rC16fhvXZOo | ECE |
| 10 | Dr.S.S. Ittannavar | MATLAB Programming | https://vtu.ac.in/pdf/2022_3to8/2 ecesyll.pdf | https://www.youtube.com/ watch?v=IuEOMyGuuIg | ECE |
| 11 | Dr.S.S. Ittannavar | Digital Signal Processing | https://vtu.ac.in/pdf/2018syll/ec.pdf | https://nptel.ac.in/courses/ 117102060 | ECE |
| 12 | Dr.S.S. Ittannavar | Digital Communicati on | https://vtu.ac.in/pdf/2018syll/ec.pdf | https://nptel.ac.in/courses/ 108102096 | ECE |
| 13 | Prof. B. P Khot | Digital Image Processing | https://vtu.ac.in/pdf/2018syll/ec.pdf | https://youtu.be/ArKe6zM kXnk https://youtu.be/nlwH07G9 Efg https://youtu.be/MrNafUqh 860 | ECE |
| 14 | Prof. B. P Khot | Network Security | https://vtu.ac.in/pdf/2018syll/ec.pdf | https://youtu.be/2YGUvop GkQc | ECE |
| 15 | Prof. B. P Khot | Computer Organization and Architecture | https://vtu.ac.in/pdf/2018syll/ec.pdf | https://youtu.be/Wfau1WC 5m4c https://youtu.be/Q7YdIhbR ea0 https://youtu.be/s4cVdsK3 XiQ | ECE |
| 16 | Prof.S.S. Malaj | Circuits and controls | https://vtu.ac.in//pdf/2021syll/ecs chsyll.pdf | https://nptel.ac.in/courses/ 108106098 https://nptel.ac.in/courses/ 108102042 | ECE |



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Academics
Web links
AY:2023-24

IQAC

Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| 17 | Prof. S. S. Kamate | S&S | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=0nZYen9w_eo&l ist=PLyqSpQzTE6M8KJ- XQ1m2vl3nd2ZUqKEN8 https://www.youtube.com/ watch?v= vyke3vF4Nk https://www.youtube.com/ watch?v=lkAvgVUvYvY | ECE |
|----|-----------------------|-------------------------|---|---|-----|
| 18 | Prof. S. S. Kamate | M&A | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=wx_tIvaajAI&list =PLzJaFd3A7DZsL9dZD CeA3ijHZwwBb6R8y https://www.youtube.com/ watch?v=wKL6WsEOl00 &list=PLGnJGN4tr1dY3U ivHBTJBQAcvlQ1FYEbG | ECE |
| 19 | Prof. S. S. Kamate | Engg. Electromagn etics | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=G5P6dInMTFg& list=PLuv3GM6-gsE3- hVNaw- YEb7EeY5XVPZdz https://www.youtube.com/ watch?v=pGdr9WLto4A& list=PL1CE5B4FFFA997E 5D | ECE |
| 20 | Prof. S. S. Kamate | VLSI Design | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=lRpt1fCHd8Y&li st=PLU8VFS- HdvKtKswbcvvA8yVhzle TV7OE8 https://www.youtube.com/ watch?v=M2x_lSYxvXk https://www.youtube.com/ watch?v=faiEVOOCe-s | ECE |

Sala (D) see

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 IQAC
Academics
Web links
AY:2023-24

Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

List of Pedagogical Initiatives and Innovative Teaching aids used by the teachers to promote experiential learning among the students (2023-24)

| S.N. | Faculty Name | Pedagogical initiatives and | Course/Topic | Branch |
|------|--------------|------------------------------|---------------------------------|--------|
| | | Innovative teaching aids | | |
| 1 | Prof. S. S. | Models are prepared to teach | Concept of Spherical Coordinate | ECE |
| | Kamate | the basics of coordinate | System, | |
| | | systems. | Cylindrical Coordinate Sytem & | |
| | | | Cartesian Coordinate Sstem | |
| | | | https://youtu.be/CW3WaE798dU | |
| 2 | Prof. P. V. | Concept of Superposition | Network Theory | ECE |
| | Patil | Theorem | https://youtu.be/bLqBJCdZgjY | |
| | | | | |

List of online resources & Web links(2023-24)

| S.N. | Faculty Name | Online resources | Web links | Branch |
|------|-----------------|---------------------|---|--------|
| 1 | Prof. S. S. | Introduction to | https://www.youtube.com/watch | ECE |
| | Patil | Embedded | ?v=OG91AlP_2XA | |
| | | Systems | | |
| | | The Typical | https://www.youtube.com/watch | ECE |
| | | Embedded | ?v=glEPCAZmcvA | |
| | | Systems | https://www.youtube.com/watch ?v=0vO14GLGRUs | ECE |
| | | | https://www.youtube.com/watch ?v=bKPCxj0hiiw | ECE |
| | | | https://www.youtube.com/watch ?v=aPgZpxQijJ0 | ECE |
| | | | https://www.youtube.com/watch ?v=XZ8hClk0uSQ | ECE |
| | | Characteristics and | https://www.youtube.com/watch | ECE |
| | | Quality Attributes | ?v=jbdtPYtGeY0 | |
| | | of Embedded | | |
| | | Systems | | |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC
Academics
Web links
AY:2023-24

Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| | | Embedded | https://www.youtube.com/watch | ECE |
|---|------------|--------------------|---|------|
| | | Systems- | ?v=hiljMGpCAno | |
| | | Application and | | |
| | | domain specific | | |
| | | Hardware | https://www.youtube.com/watch | ECE |
| | | Software Co- | ?v=J-beEbEPNSY | |
| | | design and | | |
| | | Program modeling | | |
| | | Embedded | https://www.youtube.com/watch | ECE |
| | | Firmware Design | ?v=huBPGmYj138 | |
| | | and Development | | |
| | | Real-Time | https://www.youtube.com/watch | ECE |
| | | Operating | ?v=qLxEeRpFtUo | |
| | | System(RTOS) | https://www.youtube.com/watch | ECE |
| | | based ES design | ?v=4RHxzX49vRU | ECE |
| | | | :V-+KIIXZX+5VKU | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=9WhPUnwALdc | |
| | | | | 7.67 |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=MgfvdUNTo6o | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=FsJh0b_KWGM | |
| 2 | Dr.S.S. | Gram Schmidt | | ECE |
| 2 | Ittannavar | Orthogonalization | Digital Communication https://www.youtube.com/watch? | ECE |
| | Ittamavar | Procedure | v=HX4EMJqdeZI | |
| 3 | Prof.S.S. | Introduction to | Control Systems | ECE |
| | Malaj | Control Problem | https://youtube.com/watch?v=vV | |
| | | concepts of | FDm CdQw | |
| | | Stability | | |
| | | | | |
| 4 | Prof.P.V. | Microcontroller | https://onlinecourses.nptel.ac.in/n | ECE |
| ' | Patil | 1,1101000IIIIOIIOI | oc24 ee46/preview | LOL |
| | | | | |
| 5 | Prof.P.V. | Microcontroller | https://youtube.com/playlist?list= | ECE |
| | Patil | | PLcwp2fRcIXJUFthj5CKNNam | |
| | | | SBDtf3We7A&si=4Xyi62FhRWj | |
| | <u> </u> | | <u>vuMz_</u> | |



Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC Academics

Pedagogical teaching aid

A.Y:2023-24

Dept: Computer Science & Engineering.

| | List of Pedago | gical Teaching Aid used by te | achers for Teaching Learn | ing Process |
|-----------|------------------------|--|---|--|
| SI. No | Name of the Teacher | Title of Teaching Aid used . | Topic covered | Link to document if uploaded |
| 1 | Dr. K B Manwade | Video Lecture Sub: Full Stack Development | Django Web Frameworks & its MVC Structure | |
| | | Sorting & Searching Visualizer Sub: Principles of C Programming | Topic: Simulation of Searching & Sorting Technique | |
| 1 | r. S V Manjaragi | NPTEL Video Lectures Sub: Principles of C Programming | Topic: Pointers in C | https://archive.nptel. ac.in/courses/106/10 4/106104128/ |
| | | C Code Visualizer Sub: Principles of C Programming | Topic: Visualize the execution of C Programs | https://www.cs.usfca .edu/~galles/visualiz ation/Search.html |
| 3 | Prof. N K | NPTEL Video Lectures Sub: Principles of C Programming | State Diagram Problem | |
| | Honnagoudar | NPTEL Video Lectures Sub: Digital Design & Computer Organisation | Boolean Algebra (Boolean rules & Demogram theorams) | |
| 4 | Prof. A A | NPTEL Video Lectures Sub :Data Base Management System | Transaction Processing | |
| + | Daptardar | Model/Charts Sub:Data Base Management System | Three Schema Architecture | |
| | | Models/ Charts Sub: Universal Human Value | Digital Awareness for uneducated pople | |
| J | | VTU-UHV Cell Video Lectures Sub: Universal Human Value | Topic: Integrity as a Value | |
| 51 | D. CMC | Models/Charts Sub: Internet of Things | Topic: IOT ecosystem | 4 |
| 5 | Prof. M G Ganachari | NPTEL Video Lectures Sub: Internet of Things | IOT Network Configuration | |
| | | Models/ Charts Sub: Digital Design & Computer Organisation | Topic: K-map for 4 Variables | |
| | | NPTEL Video Lectures Sub: Digital Design & Computer Organisation | Topic: Boolean Algebra | |
| 6 | Prof. S I Mane | Model/ Charts Sub: Data Structure & Applications | Topic: Basic Tree Terminologies | |
| | 1101, 5 1 Mane | NPTEL Video Lectures Sub: Data Structure & Applications Div-A | Hashing | 44 |

| | | NPTEL Video Lectures Sub: Data Structures & Applications Div-B | Hashing | |
|---|--------------------|--|--|---|
| | 8 | Models/Charts Sub: Data Structures & Applications Div-A | Components of Hashing | |
| | | NPTEL Video Display Sub: Software Engineering & Project Management | Topic: SEI Capability Maturity Model(CMM) | |
| | Prof.Sapna B Patil | Model/Charts Sub: Software Engineering & Project Management | Topic: Serum Process Flow | 1 |
| 7 | | NPTEL Video Display Sub: Operating Systems Div-A | Topic: Disk Structure | |
| | | Models/Charts Sub: Operating System Div-A | Topic: Steps in Handling the Page fault. | |

TH.O.D.

Computer Science & Engineering
HIT, Nidasoshi.



Hirasugar Institute of Technology, Nidasoshi.

Inculcating Values, Promoting Prosperity

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA:CSE & ECE NACC Cr 2.3
ICT Facilities
2023-24

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG.

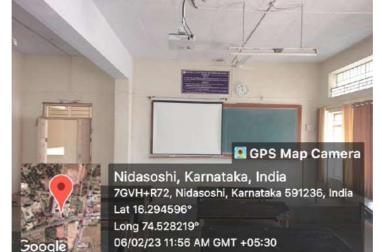
ICT Facilities

Department: Electrical & Electronics and Engineering

| Sl. No | Location | ICT Facilities and tools available |
|--------|--------------|--------------------------------------|
| | | 1. B303: Projector, Screen, Computer |
| 1. | Class rooms | 2. B304: Projector, Screen, Computer |
| | | 3. B305: Projector, Screen, Computer |
| 2. | Seminar Hall | 1. C204: Projector, Screen, Computer |
| 3. | Laboratories | 1. D205: Projector, Screen, Computer |

Photos:





Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India.



Hirasugar Institute of Technology, Nidasoshi.

Inculcating Values, Promoting Prosperity

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956

EEE

NACC Cr 2.3

ICT Facilities

2023-24



06/02/23 11:16 AM GMT +05:30

Lat 16.29535° Long 74.528182°

7GWH+28R, Nidasoshi, Karnataka 591236, India



Hirasugar Institute of Technology, Nidasoshi.

Inculcating Values, Promoting Prosperity
Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

Recognized under 2(f) & 12B of UGC Act, 1956
Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA:CSE & ECE

EEE

2024-25 (Odd Sem)

A. TEACHING METHOD

The Hirasugar Institute of Technology (HSIT) is affiliated to Visvesvaraya Technological University (VTU), Belagavi Karnataka. The HSIT makes all necessary efforts to ensure effective curriculum delivery and well documentation of all plans & activities. Following are the flow of activities to ensure effective Teaching & Learning process.

- Normally the Odd-semester commences in the first week of August & Even-semester in first week of February.
- Academic activities are conducted in well spaced & ventilated class rooms with modern teaching equipments like LCD projectors for effective teaching-learning process.
- Distribution of work-load for next semester is done soon after the end of current semester based on expertise and choice of faculty.
- Calendar of Event (COE) of the Institute is prepared that indicates academic and other activities for the semester in line with university academic calendar.
- Calendar of Event (COE) of the Department is prepared that indicates academic and other activities for the semester in line with Institute's academic calendar.
- Preparation of Time-Table of the department and ensuring the display of the same at least one week before the commencement of each semester.
- All Teachers prepare the teaching plans in line with academic calendar.
- Teachers prepare subject notes according to curriculum of Visvesvaraya Technological University.
- Teachers prepare the course plan of each course which includes Syllabus, Course outcomes, Course
 prerequisites, Course delivery plan, Assignment questions, and Results of previous two semesters.
 Course plan will be given to each student in the form of booklet every semester and also uploaded to
 institute website. http://hsit.ac.in/ee.php
- Laboratory manuals are prepared for each Laboratory and distributed to the students during the beginning of each semester.
- Theory Internal Assessments (IA) are conducted in each semester centrally & Laboratory IAs are conducted at the department as per the scheduled dates.
- Student's performance in the Internal Assessment & percentage of attendance after every Internal
 Assessment is communicated to parents through SMS. Poor performers in the Internal Assessment are
 counseled by individual course coordinator & also at the Department level.
- Remedial classes are conducted for the benefit of slow learners in different courses.
- Special lectures/invited talks are arranged regularly by eminent academicians & Industry persons.
- Faculty feedback by students is collected twice in semester to improve teaching learning process.

Hirasugar Institute of Technology, Nidasoshi.

Inculcating Values, Promoting Prosperity

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

2024-25 (Odd Sem)

EEE

Recognized under 2(f) & 12B of UGC Act, 1956 Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA:CSE & ECE

- Group of 10-15 students are allocated to each faculty for mentoring & is done on regular basis.
- At the end of each semester an examination is conducted by the university in each course.

B.LEARNING METHOD:

Institute has adopted several practices which are exclusively student centric and also help them in advanced learning like experiential learning, Participative learning and enhancement of problem solving skills.

Experiential Learning:

Students are encouraged to conduct experiments individually in the laboratories to realize the theoretical concepts. Students undergo industrial internships during vacation through institution. Industrial visits are organized regularly for better understanding of full scale working of Engineering processes and machineries. Students are supported to select projects to address community, industrial and environmental issues during final year for better understanding of real time problems and applying Engineering knowledge for resolving.

Participative Learning:

Every department encourages students to participate in co-curricular activities like Mini/Hobby project competitions and Seminars on innovations in Engineering and Technology. Also department organizes such events frequently through staff and student association (EESSA). In addition to this the institute organizes HSIT Quest every year which is a National Level technical event. In addition to outstation students, our students of all departments and all semesters take part in this Mega Event. The events of HSIT Quest include Paper Presentation, Technical Quiz, Program Coding, Trouble Shooting, Robo-Race competition etc. The Institute is providing financial support to the students for attending state level project competitions, conferences, workshops etc. every year at premier institutions, which will help them to learn cutting edge technologies and also update their knowledge at par with students of premier institutions. The department forms the project groups on merit basis, like each group consisting of slow learner, medium learner and advanced learner. The Department also conducts hands on workshop for students to enhance their learning skills. The learning method is made student centric through cooperative learning through Interdisciplinary projects.

Problem Solving:

The students are supported to take part in competitions like Smart India Hackathon organized by All India Council for Technical Education, New Delhi, and 'Anveshana' a project competition organized by Agastya International Foundation every year which enhances the problem solving ability. The institution provides platform for students to make use of modeling and simulation tools in the laboratories for solving complex Engineering problems.



Hirasugar Institute of Technology, Nidasoshi.

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

Recognized under 2(f) & 12B of UGC Act, 1956
Accredited at 'A+' Grade by NAAC & Programmes Accredited by NBA:CSE & ECE

2024-25 (Odd Sem)

EEE

C. USE OF VARIOUS INSTRUCTIONAL METHODS AND PEDAGOGICAL INITIATIVES

Institute practices blended teaching learning processes from chalk-and-talk to smart board. Students are also encouraged to interact during the lecture hour and beyond class room hours to get their doubts cleared. The Institute is equipped with state-of-art teaching aids to improve learning processes a few of them are:

- Use of ICT in teaching and learning
- Teaching with working demo/models
- Teaching with charts
- Demonstration of Engineering Concepts through live projects.
- Organizing Expert talks from academicians/industry experts.
- Use of international journals available online in VTU consortium as & when required to expose in recent innovations & developments for higher semester students.
- Revision for all theory and practical courses after completion of each module.
- Faculty members are making use of sources like National Programme on Technology Enhanced Learning (NPTEL).
- Internet sources.
- Important Websites to understand basics, working methodology of Process and systems, mechanisms and flow diagrams.
- Interactive Learning.
- Interdisciplinary Learning.

Instruction method and Interactive learning:

The faculty use chalk and board, audio visual aids, real world examples, charts & models, in teaching, as teaching aids, to bring the quality in instructional methods such that the students can easily understand the typical and complex concepts. Students are also encouraged to actually interact during the lecture hours and beyond class room hours by getting the doubts clarified.

Computer-assisted learning:

The Department has required number of computers, printers, LCD projectors, application software's and system software's with Wi-Fi connections. These resources are effectively used for (i) Final year projects/mini projects (ii) Guiding the interested and slow learners in critical subjects in extra hours (iii) Guiding the students to search the relevant technical articles/study materials through the various links in websites (iv) Searching e-journals in particular field/area of interest on regular time basis (v) Conducting departmental smart learning activities under department association.

Criteria coordinator

NBA coordinator

Dr. B. V. Madiggond

Dept. of Electrical & Electronics Engg HIT NILASOSHI-SE1 236

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

List of ICT- enabled tools including e-resources, Pedagogical Initiatives, and Teaching-aids used for effective teaching-learning process

The institute is permanently affiliated to the Visvesvaraya Technological University (VTU), Belgaum. The VTU'sBoard of Studies (BoS) has published the curriculum (2021 and 2022 Scheme of Studies), which is revised in line with the NEP-2020 of all courses in its website link: https://vtu.ac.in/en/b-e-scheme-syllabus/. Each syllabus of courses contains, 5 modules, text books, reference books, evaluation guidelines, pedagogies such as e-resources, video lectures, supporting experiments, field visits etc., along with these, the 4-5 course outcomes (COs) are also suggested. The awareness to access the VTU curriculum published and its implementation guidelines have been educated to the students during their "Induction Program" and also in the starting introductory classes. The faculty members are also referring these contents to plan teaching-learning lessons/activities/pedagogies and to define the 5 course outcomes (COs) for each module for mapping with POs and assessment of attainment purpose. The following are the VTU weblinks of syllabus, where e-resources are mentioned, Pedagogies and other ICT tools including online resources for effective teaching and learning process. All the class rooms are well connected with 104 Mbps internet and LCD projector to disseminate e-resources in the regular classes. All teachers are utilizing these facilities based on their syllabus content regularly.

| S.N. | Online resources | Web links |
|------|----------------------------------|--|
| 1 | NPTEL Courses on VTU Website | https://vtu.ac.in/en/online-course-jan-june-2023/ |
| 2 | VTU Model Question papers | https://vtu.ac.in/en/model-question-paper-b-e- b-tech-b-arch/ |
| 3 | VTU Study materials | https://vtu.ac.in/en/study-material/ |
| 4 | VTU Board of Studies Proceedings | https://vtu.ac.in/en/board-of-studies- proceedings/ |
| 5 | VTU Academic Calendar | https://vtu.ac.in/academic-calendar/ |
| 6 | VTU NISP | https://vtu.ac.in/en/nisp-2/ |
| 7 | NPTEL Courses on VTU Website | https://vtu.ac.in/en/nptel-online-courses/ |
| 8 | VTU OPAC Library | http://library.vtu.ac.in/ |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| 1 | VTU Board of Studies (BoS) recommended e-Resources which are mentioned in the Syllabus (2021 and 2022 Scheme of Study) | | | | |
|----|--|----------------------|--|--|--|
| (V | Veh link | s. Video Lectures. 1 | MOOCs, e-Shikhsana Program, NPTEL, EDUSAT, YouTube, Vlab etc.) | | |
| S | Cour | VTU Syllabus | Topic with e-Resource | | |
| | se | link | | | |
| N | | where e- | | | |
| • | | resources are | | | |
| | | mentioned | | | |
| 1 | Math | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 | | |
| | emati | df/2022syll/BMA | http://www.class-central.com/subject/math(MOOCs) | | |
| | cs-I | <u>TS101.pdf</u> | http://academicearth.org/ | | |
| | for | | VTUe-Shikshana Programand VTU EDUSAT Program | | |
| | CSE I | | | | |
| | Year | | | | |
| 2 | Physi | https://vtu.ac.in/p | Laser: | | |
| | cs for | df/2022syll/BPH | https://www.youtube.com/watch?v=WgzynezPiyc | | |
| | CSE I | YS102.pdf | Superconductivity | | |
| | Year | | https://www.youtube.com/watch?v=MT5Xl5ppn48 | | |
| | | | Optical Fiber: | | |
| | | | https://www.youtube.com/watch?v=N_kA8EpCUQo Quantum Mechanics | | |
| | | | https://www.youtube.com/watch?v=p7bzE1E5PMY&t=136s | | |
| | | | Quantum Computing: https://www.youtube.com/watch?v=jHoEjvuPoB8 | | |
| | | | Quantum Computing: https://www.youtube.com/watch?v=ZuvCUU2jD30 | | |
| | | | Physics of Animation: https://www.youtube.com/watch?v=kj1kaA_8Fu4 | | |
| | | | Statistical Physics Simulation: https://phet.colorado.edu/sims/html/plinko- | | |
| | | | probability/latest/plinkoprobability_en. | | |
| | | | html NPTEL Superconductivity: | | |
| | | | https://archive.nptel.ac.in/courses/115/103/115103108/ | | |
| | | | NPTEL Quantum | | |
| | | | Computing: https://archive.nptel.ac.in/courses/115/101/115101092 | | |
| | | | Virtual LAB: | | |
| | | | https://www.vlab.co.in/participating-institute-amrita-vishwa-vidyapeetham | | |
| | | | Virtual | | |
| | | | LAB: https://vlab.amrita.edu/index.php?sub=1&brch=189∼=343&cnt=1 | | |
| 3 | Chem | https://vtu.ac.in/p | http://libgen.rs/ | | |
| | istry | df/2022syll/BCH | https://nptel.ac.in/downloads/122101001/ | | |
| | for | ES102.pdf | https://nptel.ac.in/courses/104/103/104103019/ | | |
| | CSE I | | https://ndl.iitkgp.ac.in/ | | |
| | Year | | https://www.youtube.com/watch?v=faESCxAWR9khttps://www.youtube.co | | |
| | | | m/watch?v=TBqXMWaxZYM&list=PLyhmwFtznRhuz8L1bb3X9IbHrDM | | |
| | | | jHWWh https://www.voutube.com/wotch?v=i5Hml6KN4TI | | |
| | | | https://www.youtube.com/watch?v=j5Hml6KN4TI https://www.youtube.com/watch?v=X9GHBdyYcyo | | |
| | | | https://www.youtube.com/watch?v=1xWBPZnEJk8 | | |
| | | | https://www.youtube.com/watch?v=1xwBFZhEJKo https://www.youtube.com/watch?v=wRAo-M8xBHM | | |
| | | | ActivityBasedLearning | | |
| | | | (SuggestedActivitiesinClass)/PracticalBasedlearning | | |
| | | | https://www.vlab.co.in/broad-area-chemical-sciences | | |
| | l | | | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics
Pedagogy &
e-Resources

| | | | https://domonstrations.vvolfusur.com/tonics.nhm |
|----------|----------|---------------------|--|
| | | | https://demonstrations.wolfram.com/topics.php |
| _ | | • | https://interestingengineering.com/science |
| 4 | C- | https://vtu.ac.in/p | 1.https://elearning.vtu.ac.in/econtent/courses/video/BS/15PCD23html |
| | Progr | df/2022syll/BPO | 2. https://nptel.ac.in/courses/106/105/106105171/ |
| | ammi | <u>PS103.pdf</u> | MOOC courses can be adopted for more clarity in understanding the topics |
| | ng for | | and verities of problem solving methods. |
| | CSE I | | https://tinyurl.com/4xmrexre |
| | Year | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | learning |
| | | | • Quizzes |
| | | | Assignments |
| | | | • Seminars |
| | Math | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| | emati | df/2022syll/BMA | http://www.class-central.com/subject/math(MOOCs) |
| | cs-I | TE101.pdf | http://academicearth.org/ |
| | for | | VTU e-Shikshana Program |
| | EEE I | | VTU EDUSAT Program Activity Based Learning (Suggested Activities in |
| | Year | | Class)/ Practical Based learning |
| | | | • Quizzes |
| | | | • Assignments |
| | | | • Seminar |
| | Physi | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): Laser: |
| | cs for | df/2022syll/BPH | https://www.britannica.com/technology/laser,k |
| | EEE I | YE102.pdf | Laser: |
| | Year | <u>11102.par</u> | https://nptel.ac.in/courses/115/102/115102124/ |
| | 1 0012 | | Quantummechanics: |
| | | | https://nptel.ac.in/courses/115/104/115104096/ |
| | | | Physics: |
| | | | http://hyperphysics.phy-astr.gsu.edu/hbase/hframe. |
| | | | html Numerical Aperture of fiber: |
| | | | https://bop-iitk.vlabs.ac.in/exp/numerical-aperture-measurement 16-2-2023 |
| | | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | learning: |
| | | | http://nptel.ac.in |
| | | | https://swayam.gov.in |
| | | | https://www.vlab.co.in/participating-institute-amrita-vishwa- |
| | | | vidyapeethamhttps://vlab.amrita.edu/index.php?sub=1&brch=189∼=34 |
| | | | 3&cnt=1 |
| | | | https://virtuallabs.merlot.org/vl_physics.html |
| | | | https://phet.colorado.edu |
| | | | https://www.myphysicslab.com |
| | Chem | https://vtu.ac.in/p | WeblinksandVideoLectures(e-Resources): |
| | istry | df/2022syll/BCH | http://libgen.rs/ |
| | for | EE102.pdf | https://nptel.ac.in/downloads/122101001/ |
| | EEE I | | https://nptel.ac.in/courses/104/103/104103019/ |
| | Year | | https://ndl.iitkgp.ac.in/ |
| | | | https://www.youtube.com/watch?v=faESCxAWR9khttps://www.youtube.co |
| | | | m/watch?v=TBqXMWaxZYM&list=PLyhmwFtznRhuz8L1bb3X9IbHrDM |
| <u> </u> | <u> </u> | I | The state of the s |

60000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics
Pedagogy &
e-Resources

| | 1 | | |
|---|-------------|---------------------|--|
| | | | <u>jHWWh</u> |
| | | | https://www.youtube.com/watch?v=j5Hml6KN4TI |
| | | | https://www.youtube.com/watch?v=X9GHBdyYcyo |
| | | | https://www.youtube.com/watch?v=1xWBPZnEJk8 |
| | | | https://www.youtube.com/watch?v=wRAo-M8xBHM |
| | | | ActivityBasedLearning(SuggestedActivitiesinClass)/PracticalBased |
| | | | Learning: |
| | | | https://www.vlab.co.in/broad-area-chemical-sciences |
| | | | https://demonstrations.wolfram.com/topics.php |
| | | | https://interestingengineering.com/science |
| | Elem | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): www.nptel.ac.in |
| | ents | df/2022syll/BEE | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | of | | |
| | | <u>E103.pdf</u> | learning VI |
| | Electr | | Wherever required, faculty shall demonstrate the concepts through |
| | ical | | laboratory experiments. |
| | Engin | | |
| | eerin | | |
| | g I | | |
| | Year | | |
| | Basic | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | s of | df/2022syll/BBE | https://nptel.ac.in/courses/122106025 |
| | Electr | E103.pdf | https://nptel.ac.in/courses/108105132 |
| | onics | | https://nptel.ac.in/courses/117104072 |
| | for I | | |
| | year | | |
| | Math | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | emati | df/2022syll/BMA | http://nptel.ac.in/courses.php?disciplineID=111 |
| | cs for | <u>TM101.pdf</u> | http://www.class-central.com/subject/math(MOOCs) |
| | Mech | <u>1111101.pu1</u> | http://academicearth.org/ |
| | | | |
| | anical | | VTU e-Shikshana Program |
| | Engin | | VTU EDUSAT Program Activity-Based Learning (Suggested Activities in |
| | eerin | | Class)/Practical-Based Learning: |
| | g I | | • Quizzes |
| | year | | Assignments |
| | | | • Seminar |
| | Math | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | emati | df/2022syll/BMA | http://nptel.ac.in/courses.php?disciplineID=111 |
| | cs-I | T201.pdf | http://www.class-central.com/subject/math(MOOCs) |
| | for | | http://academicearth.org/ |
| | Mech | | VTU e-Shikshana Programand VTU EDUSAT Program Activity-Based |
| | anical | | Learning (Suggested Activities in Class)/ |
| | | | |
| | Engin eerin | | Practical-Based Learning : |
| | | | • Quizzes |
| | g I | | Assignments |
| | Year | | Seminar |
| | Physi | https://vtu.ac.in/p | Simple Harmonic motion: |
| | cs for | df/2022syll/BPH | https://www.youtube.com/watch?v=k2FvSzWeVxQ |
| | Mech | YM102.pdf | Shock waves: |
| ь | | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| anical | https://physics.info/shock/ |
|--|---|
| Engin | Shock waves and its applications: |
| eerin | https://www.youtube.com/watch?v=tz_3M3v3kxk |
| gI | Stress- strain curves: |
| Year | https://web.mit.edu/course/3/3.11/www/modules/ss.pdf |
| | Stress curves: |
| | https://www.youtube.com/watch?v=f08Y39UiC-o |
| | Fracture in materials: |
| | https://www.youtube.com/watch?v=x47nky4MbK8 |
| | Thermo-electricity: |
| | |
| | https://www.youtube.com/watch?v=2w7NBuu5w9c&list=PLtkeUZItwHK5y6qy1G |
| | Fxa4Z4Rc mzUaaz6 |
| | Thermoelectric generator and coolers: |
| | https://www.youtube.com/watch?v=NruYdb31xk8 |
| | Cryogenics: |
| | https://cevgroup.org/cryogenics-basics-applications/ |
| | Liquefaction of gases: |
| | https://www.youtube.com/watch?v=aMelwOsGpIs |
| | Virtual lab: |
| | https://www.vlab.co.in/participating-institute-amrita-vishwa-vidyapeetham |
| | Material characterization: |
| | https://onlinecourses.nptel.ac.in/noc20_mm14/preview |
| | https://www.encyclopedia.com/science-and- |
| | technology/physics/physics/cryogenicshttps://www.usna.edu/NAOE/_files/ |
| | documents/Courses/EN380/Course_Notes/Ch10_Deformation.pdf 16-2- |
| | <u>2023 4</u> |
| | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | Learning: |
| | http://nptel.ac.in |
| | https://swayam.gov.in |
| | https://virtuallabs.merlot.org/vl_physics.html |
| | https://phet.colorado.edu |
| | https://www.myphysicslab.com |
| Chem https://vtu.ac.in/p | http://libgen.rs/ |
| istry df/2022syll/BCH | https://nptel.ac.in/downloads/122101001/ |
| for <u>EM102.pdf</u> | https://nptel.ac.in/courses/104/103/104103019/ |
| Mech | https://ndl.iitkgp.ac.in/ |
| anical | https://www.youtube.com/watch?v=faESCxAWR9khttps://www.youtube.co |
| Engin | m/watch?v=TBqXMWaxZYM&list=PLyhmwFtznRhuz8L1bb3X9IbHrDM |
| eerin | iHWWh |
| gI | https://www.youtube.com/watch?v=j5Hml6KN4TI |
| Year | https://www.youtube.com/watch?v=X9GHBdyYcyo |
| | https://www.youtube.com/watch?v=1xWBPZnEJk8 |
| | https://www.youtube.com/watch?v=wRAo-M8xBHM |
| | ActivityBasedLearning(SuggestedActivitiesinClass)/ |
| | PracticalBasedlearning: |
| | https://www.vlab.co.in/broad-area-chemical-sciences |
| | https://demonstrations.wolfram.com/topics.php |
| | https://interestingengineering.com/science |
| | soshi-591 236. Tag: Hukkeri. Dist: Belagayi. Karnataka. India. |

60000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| T1 | 1 | |
|--------|---------------------|--|
| Elem | https://vtu.ac.in/p | https://www.tlv.com/global/TI/steam-theory/principal-applications-for- |
| ents | df/2022syll/BEM | steam.html |
| of | EM103.pdf | https://www.forbesmarshall.com/Knowledge/SteamPedia/About- |
| Mech | | Steam/Fundamental-Applications-of-Steam |
| anical | | https://rakhoh.com/en/applications-and-advantages-of-steam-in- |
| Engin | | manufacturing- and process-industry/) |
| eerin | | |
| g for | | Videos Makino (For Machine Tool Operation) |
| I year | | Activity Based Learning (Suggested Activities in Class)/ |
| Ĭ | | |
| | | Practical Based learning |
| | | 1. Visit to any manufacturing/aero/auto industry or any power plant |
| | | 2. Demonstration of lathe/milling/drilling/CNC operations |
| | | 3. Demonstration of working of IC engine/refrigerator |
| | | 4. Demonstration of metal joining process |
| | | 5. Video demonstration of latest trends in mobility/robotics |
| Innov | https://vtu.ac.in/p | |
| | _ | |
| ation | df/2022syll/BID | 2. https://docs.oracle.com/cd/E11108_02/otn/pdf/. /E11087_01.pdf |
| And | TK108.pdf | 3. www.bizfilings.com |
| Desig | | 4. https://www.mindtools.com/brainstm.html |
| n | | 5. https://www.quicksprout.com/ . /how-to-reverse-engineer-your-competit |
| Think | | 6. www.vertabelo.com/blog/documentation/reverse-engineering |
| ing | | https://support.microsoft.com/en-us/kb/273814 |
| | | 7. https://support.google.com/docs/answer/179740?hl=en |
| | | 8. https://www.youtube.com/watch?v=2mjSDIBaUIM |
| | | thevirtualinstructor.com/foreshortening.html |
| | | https://dschool.stanford.edu//designresources//ModeGuideBOOTCAMP |
| | | 2010L.pdf |
| | | https://dschool.stanford.edu/use-our-methods/ |
| | | https://www.interactiondesign.org/literature/article/5-stages-in-the-design- |
| | | thinking-process |
| | | http://www.creativityatwork.com/design-thinking-strategy-for- |
| | | innovation/498 |
| | | https://www.nngroup.com/articles/design-thinking/ |
| | | https://designthinkingforeducators.com/design-thinking/ |
| | | www.designthinkingformobility.org/wp- |
| | | content//10/NapkinPitch Worksheet.pdf |
| | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | |
| | | learning |
| | | http://dschool.stanford.edu/dgift/ |
| T . | 1 | https://onlinecourses.nptel.ac.in/noc19_mg60/preview |
| Intro | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| ducti | df/2022syll/BES | https://www.youtube.com/watch?v=nGfVTNfNwnk&list=PLOSWwFV98rf |
| on to | CK104A.pdf | <u>KXq2KBphJz95rao7q8PpwThttps://www.youtube.com/watch?v=nkg7VNW9U</u> |
| Civil | | Cc&list=PLOSWwFV98rfKXq2KBphJz95rao7q8PpwT&i ndex=2 |
| Engin | | https://www.youtube.com/watch?v=ljDIIMvxeg&list=PLOSWwFV98rfKXq2KBphJz |
| eerin | | 95rao7q 8PpwT&index=5 |
| g | | https://www.youtube.com/watch?v=VQRcChR9IkU&list=PLOSWwFV98rfKXq2KBp |
| | | hJz95r ao7q8PpwT&index=18 |
| | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics

Pedagogy & e-Resources

| | | | https://www.voutubo.com/watah?w=2VDVtoI |
|----------|--------|---------------------|---|
| | | | https://www.youtube.com/watch?v=3YBXteL- |
| | | | qY4https://www.youtube.com/watch?v=z95UW4wwzSc&list=PLOSWwFV98rfKX |
| | | | q2KBphJz95r ao7q8PpwT&index=10 |
| | | | https://www.youtube.com/watch?v=lheoBL2QaqU&list=PLOSWwFV98rfKXq2KBp |
| | | | hJz95rao 7q8PpwT&index=7 |
| | | | https://www.youtube.com/watch?v=atoP5_DeTPE |
| | | | https://www.youtube.com/watch?v=ksmsp9OzAsI |
| | | | https://www.youtube.com/watch?v=x1ef048b3CE |
| | | | https://www.youtube.com/watch?v=l_Nck-X49qc |
| | | | https://play.google.com/store/apps/details?id=appinventor.ai_jgarc322.Resu |
| | | | ltant_Force |
| | | | https://www.youtube.com/watch?v=RIBeeW1DSZg |
| | | | https://www.youtube.com/watch?v=R8wKV0UQtlo |
| | | | https://www.youtube.com/watch?v=0RZHHgL8m_A |
| | | | https://www.youtube.com/watch?v=Bls5KnQOWkY |
| | | | Activity-Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | Learning: |
| | | | https://www.youtube.com/watch?v=Zrc_gB1YYS0 |
| | | | https://play.google.com/store/apps/details?id=vn.edu.best4u.com.bieudonoil |
| | | | |
| | | | uc https://www.waytuba.com/watab?w.Hu.io.HucOm/ |
| | | | https://www.youtube.com/watch?v=Hn_iozUo9m4 |
| | | | https://play.google.com/store/apps/details?id=com.teobou |
| | _ | | https://www.youtube.com/watch?v=WOHRp3V-QA0 |
| | Intro | https://vtu.ac.in/p | https://rakhoh.com/en/applications-and-advantages-of-steam-in- |
| | ducti | df/2022syll/BES | manufacturing- and process-industry/ |
| | on To | CK104D.pdf | |
| | Mech | | Videos Makino (For Machine Tool Operation) Activity Based Learning |
| | anical | | (Suggested Activities in Class)/ Practical Based learning: |
| | Engin | | |
| | eerin | | Demonstration of lathe/milling/drilling operations |
| | g | | Demonstration of working of IC Engine. Study arc welding, oxy- |
| | | | acetylene gas flame structure. |
| | | | Video demonstration of latest trends in mobility robotics and |
| | | | Automation |
| | | | Demonstration of developing models on machine tools |
| \vdash | Smart | https://vtu.ac.in/p | YouTube Videos. Activity Based Learning (Suggested Activities in Class)/ |
| | Mater | df/2022syll/BET | Practical Based Learning: |
| | | | Tractical Dascu Learning. |
| | ials | CK105A.pdf | |
| | and | | Site visits to understand the prefabricated building components. |
| | syste | | Visit to Smart material manufacturing facilities |
| | ms | | Visit to 3-D printing facility |
| | Gree | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | n | df/2022syll/BET | https://www.youtube.com/watch?v=THgQF8zHBW8 |
| | Build | CK105B.pdf | https://www.youtube.com/watch?v=DRO_rIkywxQ |
| | ings | - - | - |
| | | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | learning |
| | | | Students have to visit a building which is green rated and prepare a report |
| ш | | | seasons have to the a contains which is green faced and propare a report |

100 00 mm

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| Intro | https://vtu.ac.in/p | https://nptel.ac.in/courses/118104008https://www.digimat.in/nptel/courses/v |
|----------------|--|--|
| ducti | df/2022syll/BET | ideo/118104008/L16.html |
| on to | CK105C.pdf | https://archive.nptel.ac.in/courses/113/106/113106099/ |
| Nano | | https://nptel.ac.in/courses/112107283 |
| Tech | | https://onlinecourses.nptel.ac.in/noc22_me131/preview |
| nolog | | |
| y | | Practical Based Learning (Any 5 experiments x 2 hours = 10 practical |
| | | hours): |
| | | |
| | | Preparation of silver nanoparticles and characterization of particle size |
| | | by optical spectroscopy |
| | | Preparation of ZnO nanoparticles by combustion technique Preparation |
| | | of Al2O3 nanoparticles by precipitation method Preparation of Silica |
| | | nanoparticles by sol-gel method Preparation of metal oxide |
| | | nanoparticles by hydrothermal method |
| | | Determination of thermal conductivity of nanofluids using a thermal |
| | | analyser |
| | | Preparation of thin films by SILAR method Determination of Band gap of a inequality and the state of th |
| Tutus | 1. ttm o. //retra o.o. im/m | of given material using Tauc plot VTU/EDUSAT/SWAYAM/NPTEL/MOOC. |
| Intro ducti | https://vtu.ac.in/p df/2022syll/BET | https://nptel.ac.in/courses/127105018 |
| on to | CK105D.pdf | https://nptel.ac.in/courses/127103018 https://https://nptel.ac.in/courses/107103081/www.macfound.org |
| Susta | CK105D.pui | https://unesdoc.unesco.org/ |
| inabl | | https://unesdoc.unesco.org/ark:/48223/pf0000375644.locale=en |
| e | | https://engineeringforoneplanet.org/ |
| Engin | | integration of the control of the co |
| eerin | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| g | | Learning: |
| C | | |
| | | Group Discussion of case studies. Solutions to real time case studies |
| | | Seminar/Poster Presentation |
| Rene | https://vtu.ac.in/p | E-book: URL: https://www.pdfdrive.com/non-conventional-energy-sources- |
| wable | df/2022syll/BET | <u>e10086374.html</u> |
| Energ | CK105E.pdf | E-book: <u>URL:https://www.pdfdrive.com/non-conventional-energy-systems-</u> |
| y | | <u>nptel-d17376903.html</u> |
| Sourc | | E-book: https://www.pdfdrive.com/renewable-energy-sources-and-their- |
| es | | applications- e33423592.html |
| | | E-book: https://www.pdfdrive.com/lecture-notes-on-renewable-energy- |
| | | sources-e34339149.html |
| | | https://onlinecourses.nptel.ac.in/noc18_ge09/preview |
| | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | Learning: |
| | | Poster presentation on the theme of renewable energy sources |
| | | Industry Visit |
| Emer | https://vtu.ac.in/p | https://www.youtube.com/watch?v=kQ6CY1qpGjY |
| ging | df/2022syll/BET | https://nptel.ac.in/courses/102101054 |
| Appli | CK105G.pdf | https://onlinecourses.nptel.ac.in/noc20_ph13/preview |
| · | <u> </u> | The state of the s |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Recognized under2(f) &12B of UGC Act, 1956
Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC
Academics
Pedagogy &
e-Resources

| E | 1 | | https://onlinecourses.nptel.ac.in/noc22_ph01/preview |
|--|---|--|---|
| | ns Of | | |
| n | Biose | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | nsors | | Learning: |
| | | | AV presentation by students (on specific topics). |
| | | | Discussion of case studies based on research findings. |
| <u> </u> | _ | | Model making and Poster presentations |
| | | https://vtu.ac.in/p | https://nptel.ac.in/noc/courses/noc19/SEM1/noc19-cs31/ |
| | | df/2022syll/BET | A stivity Donal Learning (Cyconoted Activities in Class) / Drestical Donal |
| | on to Intern | CK105H.pdf | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | et of | | Learning: Demonstrate a conser based application |
| | Thing | | Demonstrate a sensor based application |
| S | _ | | |
| | (TOI) | | |
| | , , | https://vtu.ac.in/p | https://www.youtube.com/watch?v=yC_hFm0BX28&list=PLxApjaSnQGi6 |
| | | df/2022syll/BET | Jm7LLSxvmNQjS_rt9swsu |
| 0 | on to | CK1051.pdf | https://www.youtube.com/watch?v=nzZkKoREEGo&list=PL9ooVrP1hQO |
| | Cybe | | GPQVeapGsJCktzIO4DtI4_ |
| r | | | https://www.youtube.com/watch?v=6wi5DI6du- |
| | Secur | | 4&list=PL uaeekrhGzJlB8XQBxU3z hDwT95xlk |
| it | ity | | https://www.youtube.com/watch?v=KqSqyKwVuA8 16-2-2023 |
| | | | A stivity Donal Learning (Sycapoted Astivities in Class) / Drestical Donal |
| | | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | Learning:Illustration of standard case study of cyber crime |
| | | | Setup a cyber court at Institute level |
| T. | Intro | https://vtu.ac.in/p | NPTL Lectures: |
| | | df/2022syll/22ET | |
| d | ancri I | | https://nptel.ac.in/courses/108102045 |
| | | | https://nptel.ac.in/courses/108102045 Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary |
| О | | <u>C15J.pdf</u> | https://nptel.ac.in/courses/108102045 Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary |
| o E | on To | | |
| o E d | on To Embe | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary |
| o E d S | on To Embe dded | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| o E d S | on To Embe dded Syste | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: |
| o E d S | on To Embe dded Syste | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc |
| o E d S n | on To Embe dded Syste ms | C15J.pdf https://vtu.ac.in/p | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED |
| o E d S n | on To Embe dded Syste ms Intro ducti | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview |
| o E d S n | on To Embe dded Syste ms Intro ducti on to | C15J.pdf https://vtu.ac.in/p | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| o E d S n | on To Embe dded Syste ms Intro ducti on to Web | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: |
| o E d S n I i d o V P | on To Embe dded Syste ms Intro ducti on to Web Progr | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: Develop simple GUI interfaces for a computer program to interact with |
| In do o v P a | on To Embe dded Syste ms Intro ducti on to Web Progr ammi | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: |
| In do o v P a n | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng | https://vtu.ac.in/pdf/2022syll/BPLCK105A.pdf | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users |
| In do V P a n In I | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng Intro | https://vtu.ac.in/p df/2022syll/BPL CK105A.pdf | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users https://www.learnbyexample.org/python/ |
| In de la contraction de la con | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng Intro ducti | https://vtu.ac.in/pdf/2022syll/BPLCK105A.pdf https://vtu.ac.in/pdf/2022syll/BPLCHD5/Wtu.ac.in/pdf/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users https://www.learnbyexample.org/python/ https://www.learnpython.org/ |
| In do o v P a a n do o | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng Intro ducti | https://vtu.ac.in/p df/2022syll/BPL CK105A.pdf | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users https://www.learnbyexample.org/python/ |
| 1 | | 711/ /11/ / / CX711/ / / H | 1 https://mptsl.co.im/sorrass/100102045 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy &
e-Resources

| Progr | | Learning: |
|-------|---------------------|--|
| ammi | | • Quizzes for list, tuple, string dictionary slicing operations using below |
| ng | | link |
| | | |
| | | https://github.com/sushantkhara/Data-Structures-And- |
| | | AlgorithmswithPython/raw/main/Python%203%20 %20400%20exercises%20and |
| | | %20solutions%20for%20beginn ers.pdf |
| Basic | https://vtu.ac.in/p | https://onlinecourses.nptel.ac.in/noc22_cs47/preview |
| s of | df/2022syll/BPL | |
| Java | CK105C.pdf | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| Progr | | Learning: |
| ammi | | Conduct on spot problem solving based on JAVA |
| ng | | • Develop simple GUI interfaces for a computer program to interact with |
| | | users |
| III | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| and | df/2022 3to8/2cs | http://www.class-central.com/subject/math(MOOCs) |
| IV | essyll.pdf | http://academicearth.org/ |
| Seme | | http://www.bookstreet.in. |
| sters | | |
| Com | | VTU EDUSAT PROGRAMME–20 and VTU e-Shikshana Program |
| puter | | Activity-Based Learning (Suggested Activities in Class)/Practical-Based |
| Scien | | Learning: |
| ce | | Programming Assignment |
| and | | • Seminars |
| Engin | | |
| eerin | | Note: Above are sample e-resources and practicals mentioned in one |
| g | | subject and e-resources of remaining courses are available in the VTU |
| Cours | | mentioned and are practicing regularly |
| es | | |
| III | https://vtu.ac.in/p | 1.Strength of Materials web course by IIT Roorkee |
| and | df/2022 3to8/2ci | https://nptel.ac.in/courses/112107146/ |
| IV | <u>vsyll.pdf</u> | 2.Strength of Materials video course by IIT Kharagpur |
| Seme | | https://nptel.ac.in/courses/105105108/ |
| sters | | 3.Strength of Materials video course by IIT Roorkee |
| Civil | | https://nptel.ac.in/courses/112107147/18 |
| Engin | | 4.All contents organized http://www.nptelvideos.in/2012/11/strengthof- |
| eerin | | materials-prof.html |
| g | | |
| Cours | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| es | | Learning: |
| | | Quiz (To assist in GATE Preparations) |
| | | Demonstrations in Lab Virtual Lab Experiments |
| | | |
| | | Note: Above are sample e-resources and practicals mentioned in one |
| | | subject and e-resources of remaining courses are available in the VTU |
| | | mentioned and are practicing regularly |
| III | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| and | df/2022_3to8/2ec | http://www.class-central.com/subject/math(MOOCs) |
| IV | esyll.pdf | http://academicearth.org/ |
| | | soshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. |

100 00 mm

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Pedagogy &
e-Resources

| | Seme | | VTU e-Shikshana Program |
|----------|------------|---------------------|--|
| | sters | | • VTU EDUSAT Program. |
| | Electr | | VIO EDOSMI Hogiani. |
| | onics | | Activity-Based Learning (Suggested Activities in Class)/Practical-Based |
| | and | | Learning (Suggested Activities in Class)/11actical-based |
| | Com | | <u>=</u> |
| | | | • Quizzes |
| | muni | | • Assignments |
| | catio | | • Seminar |
| | n | | |
| | Engin | | Note: Above are sample e-resources and practicals mentioned in one |
| | eerin | | subject and e-resources of remaining courses are available in the VTU |
| | g | | mentioned and are practicing regularly |
| | Cours | | |
| | es | | |
| | III | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| | and | df/2022 3to8/2ee | http://www.class-central.com/subject/math(MOOCs) |
| | IV | syll.pdf | http://academicearth.org/ |
| | Seme | | |
| | sters | | VTU e-Shikshana Program |
| | Electr | | VTU EDUSAT Program. |
| | ical | | VIO EDOSAT Flogram. |
| | and | | Activity Deced Learning (Suggested Activities in Class) / Drestical Deced |
| | Electr | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | onics | | Learning Activity-Based Learning (Suggested Activities in Class)/Practical- |
| | | | Based Learning |
| | Engin | | • Quizzes |
| | eerin | | • Assignments |
| | g | | • Seminar |
| | Cours | | |
| | es | | Note: Above are sample e-resources and practicals mentioned in one |
| | | | subject and e-resources of remaining courses are available in the VTU |
| | | | mentioned and are practicing regularly |
| | III | https://vtu.ac.in/p | Statics and Strength of Materials, Shehata, 2nd edition, 1994. |
| | and | df/2022_3to8/2m | http://www.astm.org/DIGITAL_LIBRARY/JOURNALS/TESTEVAL/PAGES/JTE12637J. |
| | IV | ecsyll.pdf | htm |
| | Seme | | http://www.astm.org/DIGITAL_LIBRARY/JOURNALS/TESTEVAL/PAG |
| | sters | | E S/JTE12637J.htm |
| | Mech | | http://www.freeengineeringbooks.com/Civil/Strength-of-MaterialBooks.php |
| | anical | | |
| | Engin | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | eerin | | Learning |
| | | | • Use Mdsolids (https://web.mst.edu/mdsolids/) or any open source software |
| | g Cours | | for active teaching and learning. |
| | es | | 101 delive tederining directioning. |
| | Co | | Note: Above are sample e-resources and practicals mentioned in one subject |
| | | | and e-resources of remaining courses are available in the VTU mentioned |
| | | | |
| \vdash | Chart 1 | Mamany A 11 = | and are practicing regularly |
| | | Memory Alloys | https://www.slideshare.net/sureshdaravath/shape-memory-alloys- |
| | | 12:10 pm] | <u>71483726</u> |
| | .או.ס.וע | Topannavar: | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| [07/01, 12:29 pm] | https://padeepz.net/shape-memory-alloys/ |
|---|---|
| Dr.S.N.Topannavar: Martensite | https://www.youtube.com/watch?v=r-o-neQiT24 |
| transformation animation | interpolity water |
| Properties of NiTi Alloys | https://youtu.be/EKimWj8c-MQ?si=xt2IV2XroB-TGDCU |
| [14/01, 12:41 pm] Dr.S.N.Topannavar: | https://youtu.be/60G1KCe31DA?si=-fH9w8qqdcF6tA4i |
| [14/01, 1:12 pm] | nttps://youtu.be/00011KGe51DA:SI=-II 19W0qquci 0tA4I |
| Dr.S.N.Topannavar: | |
| Shape Memory Alloys | https://youtu.be/7PKJ1TSCQWk?si=94xqFo17R6Gd6dpk |
| [14/01, 12:58 pm] Dr.S.N.Topannavar: [14/01, 1:05 pm] | https://youtu.be/M4lDuktUael?si=31_nLc_qlrO4Brwt |
| Dr.S.N.Topannavar: [14/01, 1:10 pm] | https://youtu.be/yR-6_IS9vts?si=NytO45sqMLpHUPGh |
| Dr.S.N.Topannavar: 14/01, 2:52 pm] | https://youtu.be/I7doX1zWGdw?si=Cc3GafcswLn-HvxE |
| Dr.S.N.Topannavar: Applications of Shape | https://youtu.be/5hYOxFFjZ-8?si=Vw4bGVDbBb6HKR46 |
| Memory Alloys [14/01, 2:37 pm] | https://youtu.be/I7doX1zWGdw?si=eese-szhufVq6pU6 |
| Dr.S.N.Topannavar: [14/01, 2:40 pm] | |
| Dr.S.N.Topannavar: | |
| Piezoelectric Materials and Applications [14/01, | https://youtu.be/_XABS0dR15o?si=w_lp1UghKxbuqPF5 |
| 3:14 pm] | https://youtu.be/4nbBAG-848c?si=GPQBzxnSeCjOYNhI |
| Dr.S.N.Topannavar [14/01, 3:21 pm] Dr.S.N.Topannavar | https://youtu.be/pnvpsl3bzwQ?si=7LT4KBfRU_1Y04II |
| [14/01, 3:25 pm] Dr.S.N.Topannavar: | https://youtu.be/INaPVsVZkR8?si=5L7Axd4M7UMZSIDW |
| [14/01, 3:31 pm] Dr.S.N.Topannavar: | https://youtu.be/ULbNZuZuIPg?si=BKmQ69mMmVV_J2fi |
| [14/01, 3:33 pm] Dr.S.N.Topannavar: | https://youtu.be/p-rPep0-3cE?si=yC-m6ocf7OkFMI3p |
| [14/01, 3:34 pm] Dr.S.N.Topannavar: | |
| Self Healing Materials | https://youtu.be/xDp3PU8azmY?si=HDAEMX9awZIzcpMr |
| [30/01, 7:22 am] | |
| Dr.S.N.Topannavar: Electrical Self Healing | https://youtu.be/N_ijvkl51LM?si=4M0VGpAwO1X6_aMb |
| Materials | |
| [30/01, 7:21 am] | |
| Dr.S.N.Topannavar Self Healing Polymers | https://youtu.be/XnJbH9re2rl?si=fMa7FPwTGcmjecxx |
| [30/01, 7:21 am] | |
| Dr.S.N.Topannavar Targeted Drug Delivery | https://youtu.be/2k2BLFFQssg?si=ydD6e0s6PkXiWBl9 |
| System (TDDS) | TITLE S.// YOUTU. DO / ZINZ DET T GOOG! SI- YUDUGUSU! KATIV DIS |
| · | |

De de la constante de la const

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| | T |
|--------------------------|---|
| [30/01, 7:16 am] | |
| Dr.S.N.Topannavar: | |
| Smart Drug Delivery | https://youtu.be/AqWzqhDaoz0?si=ws0q9YWpIRmF4Txg |
| System | |
| [30/01, 7:14 am] | |
| Dr.S.N.Topannavar: | |
| Bimorph MFC Actuator | https://www.youtube.com/watch?v=w79wTb2zOQQ |
| Bimorph Piezoelectric | https://www.youtube.com/watch?v=-XAIQQUcQk0 |
| Cantilever Mode Shapes | |
| Synthesis of Carbon | https://www.youtube.com/watch?v=FQ5Fe5I8vYU |
| Nanotubes (CNTs) by | |
| CVD Method | |
| Azobenzene : Organic | https://www.youtube.com/watch?v=novE6nQrBmU |
| Synthesis | inteps.// www.youtuoc.com/ waterr. v=novidenQribino |
| Azobenzene and | https://www.youtube.com/watch?v=HiI22ttaBf0 |
| Polyimide Film Shape | https://www.youtube.com/watch:v=111122ttab10 |
| | |
| Changing Polymer | https://www.voortube.com/woteb.gr. VC-E6V- |
| A crystal of azobenzene | https://www.youtube.com/watch?v=YGqEgrcnfXc |
| showing different | |
| patterns of flipping | |
| motion | |
| Smart coatings for | https://www.youtube.com/watch?v=6PJuJ1-fp7c |
| corrosion protection | |
| Scratching the Surface: | https://youtu.be/T0w_r8hrt5Q?si=CA-kfloLc4CyKiSz |
| Self Healing and Smart | |
| Coatings [30/01, 7:20 | |
| am] Dr.S.N.Topannavar | |
| | |
| New asphalt repairs its | https://youtu.be/C2CYClNVkCs?si=43Puhf-ifBMLKY7G |
| own cracks | |
| [30/01, 7:19 am] | |
| Dr.S.N.Topannavar: | |
| Self Healing Polymers by | https://youtu.be/fVTfSHEPnr8?si=uH6hdCcQRxt2cR2T |
| CIDETEC | |
| [30/01, 7:18 am] | |
| Dr.S.N.Topannavar: | |
| Nano particles for | https://youtu.be/xElVrV9zxRY?si=OczXLNpdu-Rof3bZ |
| Targeted Drug Delivery | |
| System | |
| [30/01, 7:17 am] | |
| Dr.S.N.Topannavar: | |
| Biomaterials in Drug | https://youtu.be/tx6IVsErnj8?si=ITeg26itxUnTBnx_ |
| Delivery System | |
| [30/01, 7:15 am] | |
| Dr.S.N.Topannavar: | |
| Piezo Disk Actuator, | https://www.youtube.com/watch?v=mAAT5fvbl4Y |
| Bimorph Disk Actuator | |
| Long Travel, Molecualr | |
| Valve by www.pi.ws | |
| Thermal Bimorph | https://www.youtube.com/watch?v=NpxoUU1rLTs |
| | soshi-591 236 Tag: Hukkeri Dist: Belagayi Karnataka India |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics

Pedagogy & e-Resources

AY:2022-23

| $\overline{}$ | TT C 1 37 1 | 1 // 10. GTG1100 DT |
|-----------------|---|--|
| | How Carbon Nanotubes | https://www.youtube.com/watch?v=SIif11QOsRI |
| | Will Change the World | |
| | pH Responsive Lipids- | https://www.youtube.com/watch?v=UpjLULz9Aq8 |
| | Use in Smart Drug | |
| | Delivery Systems | |
| | Smart Polymers: The | https://www.youtube.com/watch?v=6hVJvXL3tMs |
| | Game-Changing, | |
| | Responsive, Resilient, | |
| | and Revolutionary | |
| | Polymer Developments | |
| | Smart Materials of the | https://www.voutubo.com/wotob?w=4_mwDcI.McIr |
| | | https://www.youtube.com/watch?v=4rwDgLMpk |
| | Future - with Anna | |
| | Ploszajski | |
| | Research Spotlight: | https://www.youtube.com/watch?v=NTZDy8jkw68 |
| | Julianna Abel - | |
| | developing 'smart' fabrics | |
| | for medical and space | |
| | applications | |
| | Electronics in Space | https://www.youtube.com/watch?v=c4UtMI_xEQY |
| | Applications | The point with the point of the |
| | Self-Healing Coatings to | https://www.youtube.com/watch?v=66mpHrlk_Fk |
| | Prevent Corrosion | https://www.youtube.com/watch:v=oomprink_rk |
| | | |
| | Damage | The state of the s |
| | SMART COATINGS | https://www.youtube.com/watch?v=yD1Bt-jIwHw |
| | FOR CORROSION | |
| | PROTECTION DR S K | |
| | DHAWAN | |
| | How to Make PowerPoint | https://youtu.be/pdjiue2YbgY?si=YeBEV1pKstV-4pQL |
| | PPT in Mobile ppt in | |
| | mobile phone Power- | |
| | point in mobile | |
| | · | |
| | • | |
| | How to speak on Store | https://youtube.com/shorts/V0tPkayEkKs?si=HYEf0zC-JM10mK9t |
| | How to speak on Stage | intps.//youtube.com/snorts/votPkayEkks/si=H1Ei02C-JivI10mk9t |
| $\vdash \vdash$ | II | https://www.ha/ODt/OH-IDMHID-I DEW WOTEO OF |
| | How to start | https://youtu.be/QPt_CHcjDMU?si=zuvR5WnzKCTxQvG5 |
| | presentations? | |
| | Presentation Skills Five | |
| | Tips For Presentation by | |
| | Jaswant Sir | |
| | | |
| | How to make great | https://youtu.be/yPhUz6xjhGY?si=_hme-IRdI3L03XL- |
| | presentations 10 | |
| | powerful presentation tips | |
| | powerful presentation tips | |
| $\vdash \vdash$ | A Docino Eon Colf | https://youtu.bo/IZbOLIDaVdoA2si-r/4r/4cZIMOVbDbm;C |
| | A Recipe For Self- | https://youtu.be/JZbQURpXdaA?si=r4r4qZlM9YbPbmjF |
| | healing Concrete! - Science Snapshot | |
| | Notanca Snanchot | 1 |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| SMART COATINGS FOR CORROSION PROTECTION DR S K DHAWAN | https://youtu.be/yD1Bt-jIwHw?si=L5WLFGyKixCtezcw |
|--|--|
| A Recipe For Self- healing Concrete! - Science Snapshot | https://youtu.be/JZbQURpXdaA?si=r4r4qZlM9YbPbmjF |
| Scratching the Surface: Self-Healing and Smart Coatings Research at BP- ICAM | https://youtu.be/T0w_r8hrt5Q?si=Ev4abZFvuDbVwLBX |
| Corrosion in Reinforced Concrete | https://youtu.be/cX2FdjV4eOY?feature=shared |
| Graphene anti-corrosion coating - Enerage Inc. | https://youtu.be/h6VFemlHXTU?si=7gzR6MHrsJ4ZBXMb |
| Liquid Crystals NSF Chalk Talk | https://youtu.be/nAJgchCI3kg?si=-ev34gRf1LFe4_Bi |
| This new material heals—not cracks—under pressure | https://youtu.be/VJCX0xgQFBE?si=N7a1spYPUiqg1Ci9 |
| Self-Healing Coatings to Prevent Corrosion Damage | https://youtu.be/66mpHrlk Fk?si=cgPOyRbZRRbSixR0 |
| Shape Memory Alloy Heat Engine | https://youtu.be/I78ZTkdZ0b0?feature=shared |
| Photoresponsive Liquid Crystalline Epoxy Networks with Shape Memory Behavior and Dynamic Ester | https://youtu.be/dldwbymd7eA?si=CFtTWbYPGvU9XmD4 |
| Azobenzene and Polyimide Film Shape Changing Polymer | https://youtu.be/HiI22ttaBf0?si=Bl-TElmdm81LeuFI |
| Hair Gel | https://youtube.com/shorts/0eirRrU312Y?si=bry6aPBVY5iyOxar |
| | https://youtu.be/Y6K7h9tbD_s?si=GTjcsrEwblb35E-S |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics
Pedagogy &
e-Resources
AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| Liquid Crystals Painted on Heat Pipes | |
|--|--|
| What are Liquid Crystals? | https://youtu.be/MuWDwVHVLio?si=xrSjouoB7Zu4m95V |
| New Gel Protects Eggs and May Lead to Better Sports Helmets Headline Science | https://youtu.be/yBMWBhpeiy8?si=57TdmzORewh7pwha |
| Self-Healing Material | https://youtu.be/DAUl6upA3q4?si=mQHDknLx3AIIiZcL |
| Smart Gel | https://youtu.be/W-YYtQkldgU?si=i1fhaN8H8Pa67SYO |
| What are Liquid Crystals : Definition ,Formation, Types , Uses & Properties of Liquid Crystals | https://youtu.be/JIZhHhpVRrI?si=HU-UCu71guAiA4ay |
| Colour changing Liquid Crystals | https://youtube.com/shorts/IFY-HufqZPU?si=Kxj1NyqMEBvixmzy |
| Liquid Crystals | https://youtube.com/shorts/R7kbdWBVQF0?si=aoINogRmKKtkjGgc |
| Learn to deliver PRESENTATIONS confidently in ENGLISH! | https://youtu.be/Q074YSGwRTM?si=6YnCRvt6xOGWK-2O |
| India on path to triple renewable energy capacity by 2030 but faces financing hurdle: Report 29/11, 2:57 pm] Dr.S.N.Topannavar: | https://www.moneycontrol.com/news/business/economy/india-on-path-to-triple-renewable-energy-capacity-by-2030-but-faces-financing-hurdle-report-11826361.html |
| India on path to triple renewable energy capacity by 2030 but faces financing hurdle: Report - [30/11, 4:32 pm] Dr.S.N.Topannavar | https://www.notebookcheck.net/Energy-start-up-designs-offshore-wind-turbine-to-double-power-generation.771828.0.html |
| 30/11, 4:39 pm] Dr.S.N.Topannavar: | [https://solarquarter.com/2023/11/28/solar-and-wind-power-constitute-over-88-of-total-renewable-installed-capacity-by-october-2023/ |
| [04/12, 6:10 am] Dr.S.N.Topannavar: | https://www.business-standard.com/economy/news/proposed-5-biogas-blending-with-lng-can-cut-imports-worth-1-17-bn-iba-123120300252_1.html |
| [10/12, 1:22 am] | https://solarquarter.com/2023/12/05/quarterly-analysis-of-solar-pv-installed- |

00000 000000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

| Dr.S.N.Topannavar: | capacity-in-india-q1-2021-to-q3-2023/ |
|--|---|
| [10/12, 9:14 am] Dr.S.N.Topannavar: | https://www.financialexpress.com/business/sustainability-indias-potential-as-a-global-hydrogen-electrolyzer-manufacturing-hub-3334155/ |
| [10/12, 9:26 am] Dr.S.N.Topannavar: | https://www.moneycontrol.com/news/business/kundan-energy-to-develop-80-mw-hydropower-at-rs-1000-crore-investment-in-uttarakhand-11878161.html |
| [10/12, 9:27 am] Dr.S.N.Topannavar: | https://www.iamrenew.com/green-energy/revolutionizing-biogas- production-lehmann-umts-bioextrusion-process/ |
| [10/12, 9:29 am] Dr.S.N.Topannavar: | https://electrek.co/2023/12/08/us-first-large-scale-offshore-wind-farm-vineyard-wind-1/ |
| [10/12, 9:30 am] Dr.S.N.Topannavar: | https://www.businesstoday.in/impact-feature/story/forging-the-path-to-net-zero-how-to-drive-a-world-class-net-zero-transformation-408570-2023-12-07 |
| [10/12, 9:31 am] Dr.S.N.Topannavar: | https://solarquarter.com/2023/12/06/masdar-edf-renewables-and-nesma-renewable-energy-wins-a-contract-for-a-1-1-gw-solar-project-in-saudi-arabia/ |
| 15/12, 7:14 am] Dr.S.N.Topannavar | : https://www.businesstoday.in/visualstories/news/india-to-build-worlds-largest-solar-farm-equivalent-to-the-size-of-singapore-80799-08-12-2023 |
| [16/12, 7:53 am] Dr.S.N.Topannavar | : https://www.saurenergy.com/solar-energy-news/zetwerk-secures-375-mw-solar-module-deal-with-ntpc |
| [16/12, 7:54 am] Dr.S.N.Topannavar: | https://solarquarter.com/2023/12/13/sembcorp-secures-singapores-largest-solar-power-project/ |
| [16/12, 7:56 am] Dr.S.N.Topannavar: | https://www.moneycontrol.com/news/business/companies/india-gets-bids-for-green-hydrogen-electrolyser-incentives-11911761.html |
| [16/12, 7:57 am] Dr.S.N.Topannavar: | https://www.pv-magazine.com/2023/12/12/french-startup-offers-ai-algorythm-package-for-rooftop-pv-monitoring/ |
| [16/12, 7:58 am] Dr.S.N.Topannavar: | https://tradebrains.in/features/renewable-energy-stock-jumps-after-it-bags-100-8-mw-wind-power-project-in-gujarat/ |
| [16/12, 7:59 am] Dr.S.N.Topannavar: | https://www.financialexpress.com/web-stories/sme/10-solar-business-ideas-to-start-in-2024/ |
| [10/12, 9:36 am] Dr.S.N.Topannavar: | https://youtu.be/pdjiue2YbgY?si=YeBEV1pKstV-4pQL |
| [10/12, 9:45 am] Dr.S.N.Topannavar: | https://youtu.be/Q074YSGwRTM?si=6YnCRvt6xOGWK-2O |
| [10/12, 9:50 am] Dr.S.N.Topannavar: | https://youtube.com/shorts/V0tPkayEkKs?si=HYEf0zC-JM10mK9t |
| [10/12, 9:51 am] Dr.S.N.Topannavar: | https://youtu.be/QPt_CHcjDMU?si=zuvR5WnzKCTxQvG5 |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| [10/12, 9:53 am] Dr.S.N.Topannavar: | https://youtu.be/yPhUz6xjhGY?si=_hme-IRdI3L03XL- | | |
|--|---|--|--|
| VTU Curriculum-book | https://www.pdfdrive.com/non-conventional-energy-sources- | | |
| URL: | <u>e10086374.html</u> | | |
| VTU Curriculum-book | https://www.pdfdrive.com/non-conventional-energy-systems-nptel- | | |
| URL: | <u>d17376903.html</u> | | |
| VTU Curriculum-book | https://www.pdfdrive.com/renewable-energy-sources-and-their- | | |
| URL: | applications- e33423592.html | | |
| VTU Curriculum-book | https://www.pdfdrive.com/lecture-notes-on-renewable-energy-sources- | | |
| URL: | <u>e34339149.html</u> | | |
| VTU Curriculum-book | https://onlinecourses.nptel.ac.in/noc18_ge09/preview | | |
| URL: | | | |
| Models and charts to realis | se atomic structures of different materials and phase transformations | | |
| Material Testing lab visit t | Material Testing lab visit to realise the strengths and properties of different materials | | |
| Models show the stimuli a | Models show the stimuli and responses of smart materials | | |
| Application oriented pedag | gogical teaching in the class | | |

| VTU Board of Studies (BoS) recommended e-Resources | | | | |
|---|--|--|--|--|
| (Web links, Video Lectures, MOOCs, e-Shikhsana Program, NPTEL, EDUSAT, YouTube, Vlab etc.), | | | | |
| (2018-19 to 2023-24) | | | | |
| | | | | |

| | (2010-17 to 2023-24) | | | | |
|------|--------------------------|--|---|--|--------|
| S.N. | Faculty Name | Course | VTU Syllabus link where e- resources are mentioned | e-Resource | Branch |
| 1 | Prof.S.S. Malaj | Basic Electronics | https://vtu.ac.in/pdf/2022syll/BBEE 203.pdf | https://nptel.ac.in/courses/1 22106025 | ECE |
| 2 | Prof.S.S. Malaj | Basic Electronics | https://vtu.ac.in/pdf/2022syll/BBEE 203.pdf | https://nptel.ac.in/courses/1 08105132 https://nptel.ac.in/courses/1 17104072 | ECE |
| 3 | Prof.S.S. Malaj | Introduction to Internet of Things | https://vtu.ac.in/pdf/2022syll/BETC K105H.pdf | https://nptel.ac.in/noc/cours es/noc19/sem1/noc19-cs31 | ECE |
| 4 | Prof. D. B. Madihalli | Introduction to Python Programming | BPLCK105B.pdf (vtu.ac.in) | Learn Python by Examples: https://www.learnbyexampl e.org/python/ https://www.learnpython.or g https://pythontutor.com/vis ualize.html#mode=edit | ECE |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics Pedagogy & e-Resources Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

AY:2022-23

IQAC

| 5 | Prof.S.S. | Basic | https://vtu.ac.in/pdf/2021syll/21eln | https://doi.org/10.4324/978 | ECE |
|-----|-------------|---------------------|---|--|-----|
| 2 | Malaj | Electronics | 24.pdf | 1315737980.BookISBN97813 | 202 |
| | | and | | 15737980 | |
| | | communicati | | | |
| | | on | | | |
| | | Engineering | | | |
| 6 | Dr.S.S. | Basic Signal | https://vtu.ac.in/pdf/2021syll/ecsch | https://www.youtube.com/ | ECE |
| | Ittannavar | Processing | <u>syll.pdf</u> | watch?v=KJnAy6hzetw&list= | |
| | | | | PL41692B571DD0AF9B | |
| | | | | https://www.youtube.com/ | |
| | | | | watch?v=ZK3O402wf1c&list= PL49CF3715CB9EF31D&inde | |
| | | | | x=1 | |
| 7 | Dr.S.S. | Digital | https://vtu.ac.in/pdf/2021syll/ecsch | https://nptel.ac.in/courses/1 | ECE |
| , | Ittannavar | Signal | syll.pdf | 17102060 | LCL |
| | Tttuima vai | Processing | sympa. | 1710200 | |
| 8 | Dr.S.S.I | Digital | https://vtu.ac.in/pdf/2021syll/ecsch | https://nptel.ac.in/courses/1 | ECE |
| | ttannavar | Communicati | syll.pdf | 08102096 | |
| | | on | | | |
| 9 | Dr.S.S. | Multimedia | https://vtu.ac.in/pdf/2018syll/ec.pd | https://www.youtube.com/ | ECE |
| | Ittannavar | Communicati | <u>f</u> | watch?v=rC16fhvXZOo | |
| | | on | | | |
| 10 | Dr.S.S. | MATLAB | https://vtu.ac.in/pdf/2022_3to8/2e | https://www.youtube.com/ | ECE |
| | Ittannavar | Programming | <u>cesyll.pdf</u> | watch?v=luEOMyGuulg | |
| 11 | Dr.S.S. | Digital | https://vtu.ac.in/pdf/2018syll/ec.pd | https://nptel.ac.in/courses/1 | ECE |
| | Ittannavar | Signal | <u>f</u> | <u>17102060</u> | |
| 12 | Dr.S.S. | Processing | https://utu.as.ip/pdf/2019sull/as.pd | https://pptol.go.in/courses/1 | ECE |
| 12 | Ittannavar | Digital Communicati | https://vtu.ac.in/pdf/2018syll/ec.pd f | https://nptel.ac.in/courses/1 08102096 | ECE |
| | Tuaimavai | on | 1 | 08102030 | |
| 13 | Prof. B. P | Digital Image | https://vtu.ac.in/pdf/2018syll/ec.pd | https://youtu.be/ArKe6zMkX | ECE |
| 10 | Khot | Processing | <u>f</u> | nk | LCL |
| | | | _ | https://youtu.be/nlwH07G9E | |
| | | | | <u>fg</u> | |
| | | | | https://youtu.be/MrNafUqh | |
| | | | | 860 | |
| 14 | Prof. B. P | Network | https://vtu.ac.in/pdf/2018syll/ec.pd | https://youtu.be/2YGUvopG | ECE |
| | Khot | Security | <u>f</u> | <u>kQc</u> | |
| 1.5 | D CD D | | https://www.cis/del/2010.ci/ | haterallian to be hard and | EGE |
| 15 | Prof. B. P | Computer | https://vtu.ac.in/pdf/2018syll/ec.pd | https://youtu.be/Wfau1WC5 | ECE |
| | Khot | Organization and | <u>f</u> | m4c https://youtu.be/Q7YdIhbRe | |
| | | Architecture | | a0 | |
| | | Aichitecture | | https://youtu.be/s4cVdsK3Xi | |
| | | | | Q | |
| 16 | Prof.S.S. | Circuits and | https://vtu.ac.in//pdf/2021syll/ecsc | https://nptel.ac.in/courses/ | ECE |
| | Malaj | controls | hsyll.pdf | 108106098 | |
| | 1 | 1 | 1 | | |
| | | | | https://nptel.ac.in/courses/ | |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

AY:2022-23

| 17 | Prof. S. S. Kamate | S&S | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=0nZYen9w_eo&l ist=PLyqSpQzTE6M8KJ- XQ1m2vl3nd2ZUqKEN8 https://www.youtube.com/ watch?v=_vyke3vF4Nk https://www.youtube.com/ watch?v=lkAvgVUvYvY | ECE |
|----|-----------------------|-------------------------|---|---|-----|
| 18 | Prof. S. S. Kamate | M&A | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/watch?v=wx tIvaajAI&list=PLzJaFd3A7DZsL9dZDCeA3ijHZwwBb6R8yhttps://www.youtube.com/watch?v=wKL6WsEOl00&list=PLGnJGN4tr1dY3UivHBTJBQAcvlQ1FYEbG | ECE |
| 19 | Prof. S. S. Kamate | Engg. Electromagn etics | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=G5P6dInMTFg& list=PLuv3GM6-gsE3- hVNaw- YEb7EeY5XVPZdz https://www.youtube.com/ watch?v=pGdr9WLto4A& list=PL1CE5B4FFFA997E 5D | ECE |
| 20 | Prof. S. S. Kamate | VLSI Design | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=lRpt1fCHd8Y&li st=PLU8VFS- HdvKtKswbcvvA8yVhzle TV7OE8 https://www.youtube.com/ watch?v=M2x_lSYxvXk https://www.youtube.com/ watch?v=faiEVOOCe-s | ECE |

List of Self-prepared Pedagogical Initiatives and Innovative Teaching aids used by the teachers to promoteexperiential learning among the students

| S.N. | Self-prepared Pedagogical initiatives and Innovative teaching aids | Course/Topic | Dept |
|------|---|---------------------------------------|----------------|
| 1. | Concept realization through learning models/charts in the class room. | EME: IC engine models, Gears, Milling | Mech. Engg. |
| 2. | Concept realization through | EME: Turbines & Pumps in the Fluid | Mech. |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy &
e-Resources

| Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE | | |
|---|---|-------|
| | | |
| equipment demonstration in the | Machinery Lab, Lathe, Drilling, Milling | Engg. |
| respective laboratories. | Machines in the Machine Shop and Welding in | |

| | equipment demonstration in the | Machinery Lab, Lathe, Drilling, Milling | Engg. |
|-----|---|---|--------|
| | respective laboratories. | Machines in the Machine Shop and Welding in | |
| | | the Workshop | |
| 3. | Inspiring students to arrive basic | Thermodynamics Laws and Properties, | Mech. |
| | definitions/laws by giving | Refrigerating Effect, Ton of Refrigeration, IC | Engg. |
| | examples/case studies/current | engine efficiencies and powers, | |
| | affairs/routine activities/events etc. | Definitions/functions of Turbines and Pumps, | |
| | indirectly | Speed Ratios of Gear Trains/Belt Drives | |
| 4. | Motivating students to comprehensive | Numerical solving on Thermodynamic | Mech. |
| | understanding of the numerical | Concepts, Steam Formation, Gear Trains, Belt | Engg. |
| | problem statements (basic & Logic) | Drives, IC engines | |
| | before solving. | , , | |
| 5. | Teaching students how to read and | T-h diagram of steam formation, PV diagram | Mech. |
| | understand formulae, graphs and | of Thermodynamics/IC engines, Steam Tables, | Engg. |
| | tables?, and predicting, analyzing and | energy conversion equations | |
| | reasoning on technical parameters. | chargy conversion equations | |
| 6. | Teaching derivations and their | Equations of I and II law of thermodynamics, | Mech. |
| • | derivatives (final & intermediate) | entropy, IC engine efficiencies/powers, | Engg. |
| | through units and their different | enthalpy of steam, Specific heats, latent heats | 55. |
| | forms. | Similar of Scenari, Special found, invent feature | |
| 7. | Realizing and feeling the scale of the | Showing the height of the boiler w.r.t man avg. | Mech. |
| , • | equipment, quantity, process etc. | height, Feeling of 1 bar pressure/1 N | Engg. |
| | through sketches, actions, demos etc. | force/Temperature, 1 Joule energy | 255. |
| 8. | After teaching, ensuring the students' | Classifications of | Mech. |
| 0. | learning by motivating students to list | Steams/turbines/pumps/engines/boilers, | Engg. |
| | the comparisons, differentiations, | Comparisons between Energy sources, | Eligg. |
| | classification, similarities with | similarity between heat and work. | |
| | reasons in the class rooms. | Similarity between heat and work. | |
| 9. | Promoting Cooperative/Informal | Elements of Mechanical Engineering | Mech. |
| 7. | learning through interactions outside | Elements of Weenamen Engineering | Engg. |
| | the class room between slow learners | | Lligg. |
| | and bright student/s. | | |
| 10. | Discussion on the end | Elements of Mechanical Engineering | Mech. |
| 10. | results/solutions of the complex | Elements of Weenamear Engineering | Engg. |
| | problems | | Eligg. |
| 11. | 1 | Functions renewable energy conversion | Mech. |
| 11. | class rooms | systems/boilers/turbines/pumps/gears/welding/l | |
| | Class rooms | athes | Engg. |
| 12 | Industry Visits | Elements of Mechanical Engineering | Mech. |
| 12. | industry visits | Elements of Mechanical Engineering | |
| 12 | Application enjoyeed tooching and | Fone and their blade design for angusy | Engg. |
| 13. | | Fans and their blade design for energy | Mech. |
| | creating curiosity to learn and | conversion/thermodynamics concepts, | Engg. |
| 1 4 | understand the concepts. | Density/specific volume, heat transfer | N / 1 |
| 14. | | Elements of Mechanical Engineering | Mech. |
| | asking questions, creating curiosity, | | Engg. |
| | connecting routine | | |
| | applications/practices etc. | | |
| 15. | Flapped Teaching and Learning | Elements of Mechanical Engineering | Mech. |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956

IQAC
Academics
Pedagogy & e-Resources

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

AY:2022-23

| | process | | Engg. |
|-----|--|--|-------------|
| 16. | Spot quantifying of learning and | Elements of Mechanical Engineering | Mech. |
| | motivating students to express the | | Engg. |
| | feedback about teaching and learning | | |
| | process | | |
| 17. | Teaching by the students on his/her | Elements of Mechanical Engineering | Mech. |
| | chosen topic | | Engg. |
| 18. | Motivational teaching to draw | Strokes in IC engines, Refrigeration cycles, | Mech. |
| | meaningful and logical based sketches | Turbines, Pumps, Lathe and its machining | Engg. |
| | including graphics. | operations | |
| 19. | Inspiring students to read reputed | Elements of Mechanical Engineering | Mech. |
| | reference books and to make their | | Engg. |
| | own notes. | | |
| 20. | Motivational teaching to create own | Elements of Mechanical Engineering | Mech. |
| | sketches to understand the critical | | Engg. |
| | concepts and express them in the | | |
| 21 | exams to strengthen the answers | | 3.6.1 |
| 21. | Facilitating self-Video Lectures for Slow learners and absentees | Elements of Mechanical Engineering | Mech. |
| 22 | | Wind Engagy | Engg. Mech. |
| 22. | https://www.youtube.com/watch?v=q SWm_nprfqE | Wind Energy | |
| | https://www.youtube.com/watch?v=x | | Engg. |
| | y9nj94xvKA | | |
| 23. | https://www.youtube.com/watch?v=x | Solar Energy Conversion | Mech. |
| 23. | Kxrkht7CpY | Sold Energy Conversion | Engg. |
| | https://www.youtube.com/watch?v=8 | | 88 |
| | nJXN6kwyqA | | |
| | https://www.youtube.com/watch?v=x | | |
| | Kxrkht7CpY | | |
| | <pre>https://www.youtube.com/watch?v=Z</pre> | | |
| | AJeDVLO1_w | | |
| | https://www.youtube.com/watch?v=lr | | |
| | RTCbXE0Jc | | |
| 24. | https://www.youtube.com/watch?v=Id | Thermal Power Plant | Mech. |
| | PTuwKEfmA | D: 6 1/ | Engg. |
| 25. | https://www.youtube.com/watch?v=tP | Bio fuel/gas production | Mech. |
| | HyYM7UqSo | | Engg. |
| | https://www.youtube.com/watch?v=c 1adiK8nLbA | | |
| | https://www.youtube.com/watch?v=O | | |
| | Jw6WFkTPZo | | |
| 26. | https://www.youtube.com/watch?v=2 | Nuclear Energy Production | Mech. |
| 20. | W-GEE6YU4M | Tracted Energy Froduction | Engg. |
| | https://www.youtube.com/watch?v=m | | 255. |
| | BdVK4cqiFs | | |
| | https://www.youtube.com/watch?v=xr | | |
| | k7Mt2fx6Y | | |
| | K/IVItZIXU I | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| Academics | |
|-------------|--|
| Pedagogy & | |
| e-Resources | |
| AY:2022-23 | |

| UwexvaCMWA | A | | |
|--|----------------------|--|-------|
| https://www.yo | outube.com/watch?v=A | | |
| MXxXoHtM-o | | | |
| 27. https://www.yo | outube.com/watch?v=q | Hydroelectric power plant | Mech. |
| 8HmRLCgDAI | - | J | Engg. |
| | outube.com/watch?v=U | | 86 |
| hjhufhg3Xk | | | |
| | outube.com/watch?v=h | | |
| C8NEiwrLTg | | | |
| 28. Basics of Therr | modynamics: | Basics of Thermodynamics | Mech. |
| | • | • Steam Formation-Properties | Engg. |
| | u.be/ouEjwbRraNo | Steam Formation Froperties | 86 |
| ' - | u.be/z1nE-23ZglQ | | |
| | u.be/_krp-ATP30s | | |
| | u.be/3Sxj9OG31PU | | |
| Steam Formation | • | | |
| | u.be/uFlocTrVEOg | | |
| / | u.be/jmjOITS4a94 | | |
| | u.be/ahuXCZ91ats | | |
| 29. Boilers: | · | Boilers | Mech. |
| 1) https://yout | u.be/PRtvB00d5V0 | Turbines | Engg. |
| 2) https://yout | u.be/AWSJVmg1w58 | Hydraulic Pumps | |
| 3) https://yout | u.be/28S0rS5ScgI | | |
| 4) https://youtu | u.be/XuV5MusoAgc | | |
| Turbines: | • | | |
| 1) https://yout | u.be/cESnwE2hgxA | | |
| 2) https://yout | u.be/3_5VEuA_ctw | | |
| 3) https://yout. | u.be/d3-BqXwbQcY | | |
| 4) https://youtrage/4 | u.be/UB0DyOaDwxU | | |
| 5) <a href="https://youtreedings.com/https://y</th><th>u.be/H8x1rIdiHWc</th><th></th><th></th></tr><tr><th>Hydraulic Pum</th><th>ps:</th><th></th><th></th></tr><tr><th>1) https://yout | u.be/LFv4NGA2qtw | | |
| 2) https://yout | u.be/SX9rkMO2iKo | | |
| 3) <a href="https://youtreedings.com/https://y</th><th>u.be/6VRYJcZXotI</th><th></th><th></th></tr><tr><th>30. IC Engines:</th><th></th><th>• Internal Combustion (IC) Engines</th><th>Mech.</th></tr><tr><th>1) <a href=" https:="" th="" youtu<=""><th>u.be/ltp_gx4oc0U</th><th></th><th>Engg.</th> | u.be/ltp_gx4oc0U | | Engg. |
| 2) <a href="https://youtu</th><th>u.be/BrQJVA-Ne2E</th><th>• Refrigeration and Air Conditioning (AC)</th><th></th></tr><tr><th>3) <a href=" https:="" th="" youtu<=""><th>u.be/xyB8DnIw3Co</th><th></th><th></th> | u.be/xyB8DnIw3Co | | |
| | u.be/TStNvU5KORg | | |
| | u.be/1sKl7POCJ08 | | |
| | u.be/3DLJoMc708I | | |
| | u.be/ahqHOdLmtCc | | |
| / | u.be/wtHiUvTEoD8 | | |
| | u.be/3Fw5_aEfrbU | | |
| Refrigeration: | | | |
| , | u.be/y9gCc4jYkPY | | |
| , | u.be/zwNaU_6dMgY | | |
| | u.be/JEgjgSkhEIo | | |
| 4) https://yout | u.be/KQRb_25gR7M | : Hukkeri. Dist: Belagavi. Karnataka. India. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy &
e-Resources

| 5) 1 // // D COCIDI | T | 1 |
|--|---|-------|
| 5) https://youtu.be/kurwDfOSlBk | | |
| Air-Conditioning (AC): | | |
| 1) https://youtu.be/1BEKiLNNjRQ | | |
| 2) https://youtu.be/AJ508pSoci0 | | |
| 3) https://youtu.be/IIoouWdNU7k | | |
| 31. Engineering Materials: | Properties, Compositions and Industrial | Mech. |
| 1) https://youtu.be/3cZmDZepNAE | Applications of Engineering Materials | Engg. |
| 2) https://youtu.be/FproDJHrxeA | • Joining Processes | |
| Joining Processes: | • Belt Drives | |
| 1) https://youtu.be/Jpev1oGMEhg | • Gear Drives | |
| 2) https://youtu.be/9NXTKdX_qu4 | Gear Drives | |
| 3) https://youtu.be/Z0WOeVYg81c | | |
| 4) https://youtu.be/iXraH72qwcY | | |
| 5) https://youtu.be/5srRIznYEdY | | |
| 6) https://youtu.be/qAIqOSpBf Q | | |
| 7) https://youtu.be/GNLsxnjsIzs | | |
| 8) https://youtu.be/uRmgDTcNEQU | | |
| Belt Drives: | | |
| 1) https://youtu.be/L9iuKli2WZY | | |
| 2) https://youtu.be/SGOBo7tp8gY | | |
| 3) https://youtu.be/o_ZTtr2vlho | | |
| 4) https://youtu.be/13zz8qey_K0 | | |
| | | |
| 5) https://youtu.be/9u Fgi2G uw | | |
| 6) https://youtu.be/1 KxQzi3SCY | | |
| 7) https://youtu.be/KrfsP5VdGp8 | | |
| 8) https://youtu.be/Ba_0FDzFYH0 | | |
| Gear Drives: | | |
| 1) https://youtu.be/x0pA5boJh1M | | |
| 2) https://youtu.be/6ZIHS4_j6yQ | | |
| 3) https://youtu.be/jBacF4mkVAA | | |
| 32. Lathe Machine: | Lathe Machine | Mech. |
| 1) https://youtu.be/j8eKqrjaoFU | Milling Machine | Engg. |
| 2) https://youtu.be/4FoTMmlO60s | Introduction to Advanced | |
| 3) https://youtu.be/pngcpwmQABw | Manufacturing Systems | |
| 4) https://youtu.be/zcFtZVywZ-s | • Robots | |
| 5) https://youtu.be/RY7zAyPF1Lo | | |
| Milling Machine: | | |
| 1) https://youtu.be/RcfqhRRsJhI | | |
| 2) https://youtu.be/K1el91hK36k | | |
| 3) https://youtu.be/bgq1xRb-kdM | | |
| 4) https://youtu.be/-I8gjY0GDYA | | |
| 5) https://youtu.be/5Ygf-u5P3oU | | |
| 6) https://youtu.be/sZ1AJ7nDbFo | | |
| | | |
| Advanced Manufacturing Systems: | | |
| 1) https://youtu.be/5sseHUWBuHs | | |
| 2) https://youtu.be/yXvm84m-5t0 | | |
| 3) https://youtu.be/Vy3-VmJvV9E | | |
| Robots: | | |
| | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

AY:2022-23

| | 1) https://youtu.be/VONRliCuT_w | | |
|-----|-----------------------------------|---|--------|
| | 2) https://youtu.be/lrlt1aKr2ck | | |
| 33. | https://www.youtube.com/watch?v=e | Fluid Properties | Mech. |
| | 6a2q9k2JCA | | Engg. |
| | https://www.youtube.com/watch?v=s | | 21188. |
| | A99mw3D2Ds | | |
| | https://www.youtube.com/watch?v=A | | |
| | 0BuHEqDm88 | | |
| | https://www.youtube.com/watch?v=d | | |
| | • | | |
| | yYkUUtOYpQ | | |
| | https://www.youtube.com/watch?v=E | | |
| | pbuI6CbMRU | | |
| | https://www.youtube.com/watch?v=G | | |
| | 8G2ObAbZ8 | | |
| | https://www.youtube.com/watch?v=H | | |
| | tgFMXZw2Fw&list=PLWPirh4EWF | | |
| | pEduIfhK_VnKCK7VqHDoZKV | | |
| | https://www.youtube.com/watch?v=5 | | |
| | NCOnr3VSAY | | |
| | https://www.youtube.com/watch?v=v | | |
| | y2LW9tUFHA | | |
| 34. | https://www.youtube.com/watch?v=q | Pascal Law | Mech. |
| | GQ4fojjwvQ | | Engg. |
| | https://www.youtube.com/watch?v=w | | 22 |
| | HMHxO9Ys 0 | | |
| | https://www.youtube.com/watch?v=o | | |
| | UF3hWw4tY4 | | |
| | https://www.youtube.com/watch?v=Y | | |
| | uSKghET21A | | |
| 35. | https://www.youtube.com/watch?v=g | Manometers | Mech. |
| | 0kpcCBuXe0 | | Engg. |
| | https://www.youtube.com/watch?v= | | 88 |
| | WmWw_IB6nv4 | | |
| | https://www.youtube.com/watch?v=- | | |
| | P1EvVuuPoI | | |
| | https://www.youtube.com/watch?v=J | | |
| | TM-NvuCW9w | | |
| | https://www.youtube.com/watch?v=1 | | |
| | ey4oBuNSw | | |
| | https://www.youtube.com/watch?v=z | | |
| | PdB4MdRErc | | |
| 36. | | Duoyanay & Floating | Mash |
| 30. | https://www.youtube.com/watch?v=y | Buoyancy & Floating | Mech. |
| | YYzEdJHkak | | Engg. |
| | https://www.youtube.com/watch?v=n | | |
| | MIXU97E-uQ | | |
| | https://www.youtube.com/watch?v=2 | | |
| | RefIvqaYg8 | | |
| | https://www.youtube.com/watch?v=k | | |
| | hc2wUBsFU4 | | |
| | Nidasoshi-501 236 Tao | ı: Hukkeri, Dist: Belagavi, Karnataka, India. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| https://www.youtube.com/watch?v= W5vv6hTMrFo https://www.youtube.com/watch?v=0 UgXP2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKOs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C yWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=E gY38h2LDeo https://www.youtube.com/watch?v=F gY38h2LDeo https://www.youtube.com/watch?v=X | |
|--|--------|
| https://www.youtube.com/watch?v= p-hwElkrlk https://www.youtube.com/watch?v=Q Ugxf2Rj2YQ https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXkg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa37DnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Mc En Mc | |
| p-hwElkrlk https://www.youtube.com/watch?v=Q UgXf2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C yWrkxzCiaY https://www.youtube.com/watch?v=l 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=Q UgXf2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| UgXf2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3ygsp4yKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=g MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 KTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1Pb0XKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=g MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 KTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Mc En | |
| Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=6 KTvQEMwOffM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKOs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=E gY38h2LDeo | |
| XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=g MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| 3ygsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Me En | |
| https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=l 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Me En | |
| https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| wWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Motorial Flow Types of Fluid Flow Motorial Flow Motoria | |
| https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow En | |
| 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow En Metroscopic Structure of Fluid Flow Met | |
| https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow En Additional Flow En Types of Fluid Flow En En Types of Fluid Flow En | |
| 37. https://www.youtube.com/watch?v=gr https://www.youtube.com/watch?v=n https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gy38h2LDeo | |
| 37. https://www.youtube.com/watch?v=gr | |
| MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | 1 |
| https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | igg. |
| https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=F gY38h2LDeo | |
| gY38h2LDeo | |
| | |
| | |
| Z7CqISBIfE | |
| https://www.youtube.com/watch?v=5 | |
| 6AyTIhNQBo | |
| https://www.youtube.com/watch?v=F | |
| <u>ZYnewBWUoc</u> | |
| 38. <u>https://www.youtube.com/watch?v=E</u> Fluid Deformations Me | ech. |
| 8yPWd-DwcQ En | ngg. |
| https://www.youtube.com/watch?v=9 | |
| <u>6fYQFPGwzU</u> | |
| https://www.youtube.com/watch?v=c | |
| 6ndD5kTkP4 | |
| https://www.youtube.com/watch?v=H | |
| 9u8O4osE0g | |
| https://www.youtube.com/watch?v=v | |
| C569UD49yA | |
| 39. https://www.youtube.com/channel/U Continuity Equation Me | a a la |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC
Academics
Pedagogy &
e-Resources

| | <u>CkDw-</u> | | Engg. |
|-----|------------------------------------|--|-------|
| | LPU1Nnd2WRsfnDbUcA?v=lN20Vr | | |
| | <u>Pmxdk</u> | | |
| | https://www.youtube.com/watch?v=jn | | |
| | <u>g6cW9r0w</u> | | |
| | https://www.youtube.com/watch?v= | | |
| | WGuzqF2GCBg | | |
| | https://www.youtube.com/watch?v=y | | |
| | cgJvnm24ks | | |
| | https://www.youtube.com/watch?v=8 | | |
| | wM7_vgBSQA | | |
| 40. | https://www.youtube.com/watch?v=U | Bernoulli's Equation | Mech. |
| | J3-Zm1wbIQ | | Engg. |
| | https://www.youtube.com/watch?v=b | | |
| | C8v6hlXnSk | | |
| | https://www.youtube.com/watch?v=m | | |
| | geIWXld9FU | | |
| | https://www.youtube.com/watch?v=8 | | |
| | vqMotb6m3c | | |
| | https://www.youtube.com/watch?v=Y | | |
| | yeX6ArxCYI | | |
| | https://www.youtube.com/watch?v=br | | |
| | N9citH0RA | | |
| | https://www.youtube.com/watch?v=O | | |
| | 8qCA2mZvVI | | |
| | https://www.youtube.com/watch?v=U | | |
| | xYH41vV-DI | | |
| 41. | https://www.youtube.com/watch?v=J | N-S equations & Applications like | Mech. |
| | H3l-NliCkM | CoutteandHagen- Poiseuille Flows | Engg. |
| | https://www.youtube.com/watch?v=v | _ | |
| | xJrb7JKigQ | | |
| | https://www.youtube.com/watch?v=5 | | |
| | w4cJBdFHFw | | |
| | https://www.youtube.com/watch?v=b | | |
| | 5CwH5AlCkw | | |
| | https://www.youtube.com/watch?v=q | | |
| | CosEM9h0AU | | |
| | https://www.youtube.com/watch?v=k | | |
| | 7ZZtxdtmeQ | | |
| | https://www.youtube.com/watch?v=z | | |
| | MfssrddyRU | | |
| | https://www.youtube.com/watch?v=G | | |
| | 3bO8RcRgxQ | | |
| | https://www.youtube.com/watch?v=x | | |
| | wyssfQ6oVc | | |
| | https://www.youtube.com/watch?v= | | |
| | hvgvZuIZOc | | |
| | https://www.youtube.com/watch?v=6 | | |
| | zoOBwI5BEY | | |
| | | : Hukkeri. Dist: Belagavi. Karnataka. India. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 42. | https://www.youtube.com/watch?v=6 | Losses in Pipe-flow | Mech. |
|-----|------------------------------------|---|--------|
| | <u>DFe8eUrbcI</u> | | Engg. |
| | https://www.youtube.com/watch?v=G | | |
| | 4rbUtAxgHM | | |
| | https://www.youtube.com/watch?v=U | | |
| | flurPbj-UA | | |
| | https://www.youtube.com/watch?v=k | | |
| | JlJoAKveJA | | |
| | https://www.youtube.com/watch?v=D | | |
| | 8I9JvlvZuQ | | |
| | https://www.youtube.com/watch?v=jb | | |
| | RkpXEJO64 | | |
| | https://www.youtube.com/watch?v=T | | |
| | KMPpcxSER4 | | |
| 43. | | Lift and Drag Forces | Mech. |
| 15. | tiFEei3AI | Bit and Brag 1 orees | Engg. |
| | https://www.youtube.com/watch?v=9 | | Lings. |
| | xhJ0-OROg | | |
| | https://www.youtube.com/watch?v=w | | |
| | 78JT6azrZU | | |
| | https://www.youtube.com/watch?v=F | | |
| | ev8FWVcC-A | | |
| | https://www.youtube.com/watch?v=g | | |
| | sUlaQ6IxSU | | |
| | https://www.youtube.com/watch?v=O | | |
| | 0TBcasl8u0 | | |
| | https://www.youtube.com/watch?v=A | | |
| | XiThF1LXU | | |
| | https://www.youtube.com/watch?v=S | | |
| | 1kU6sSefr0 | | |
| | | | |
| | https://www.youtube.com/watch?v=Z | | |
| | bD0Ebc8RGg | | |
| | https://www.youtube.com/watch?v=8 | | |
| | pp47Y8dLJk | | |
| | https://www.youtube.com/watch?v=Ft | | |
| | j6A2P7lmw | | |
| | https://www.youtube.com/watch?v=dj | | |
| 1.1 | CCno4Cbcw | Ctroomline and Dluff Dadu | Mech. |
| 44. | - | Streamline and Bluff Body | |
| | HXkouhw758 | | Engg. |
| | https://www.youtube.com/watch?v=B | | |
| | J96HCVTTew | | |
| | https://www.youtube.com/watch?v=A | | |
| | kBn-lpWgVs | | |
| 45. | - | Mach No. and Supersonic, Subsonic Flows | Mech. |
| | BJ3tXCjzN0 | | Engg. |
| | https://www.youtube.com/watch?v=X | | |
| | 871jMv0aKk | | |
| | https://www.youtube.com/watch?v=B | | |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| | Ta | | T |
|-----|--|----------------------|----------|
| | hqo6ne6Y_A | | |
| | https://www.youtube.com/watch?v=x | | |
| | sp0kGrwXW4 | | |
| | https://www.youtube.com/watch?v=P | | |
| | Tc0yftUA2c | | |
| | https://www.youtube.com/watch?v=fx | | |
| | eQOQSmqRs https://www.youtube.com/watch?v= | | |
| | W9dhUPkFBR8 | | |
| | https://www.youtube.com/watch?v=V | | |
| | laGxYjnoPY | | |
| | https://www.youtube.com/watch?v=1 | | |
| | m3 dx2E4Z8 | | |
| | https://www.youtube.com/watch?v=u | | |
| | gPJYJ-BKkU | | |
| | https://www.youtube.com/watch?v=Ii | | |
| | <u>V3cPADCgg</u> | | |
| | https://www.youtube.com/watch?v=X | | |
| | <u>sntPXYOgpQ</u> | | |
| | https://www.youtube.com/watch?v=rr | | |
| | Cs-KYZ57Y | | |
| 46. | - | CFD Applications | Mech. |
| | USG6SMsn10 | | Engg. |
| | https://www.youtube.com/watch?v=lt | | |
| | pSEn-vQS8 https://www.youtube.com/watch?v=B | | |
| | -z54jx8u5k | | |
| | https://www.youtube.com/watch?v=h | | |
| | zTCCcsOTg8 | | |
| 47. | | Fluid Statics | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur.htm | | |
| | 111/020Kanput.iitiii | | |
| 48. | file:///D:/Department/SUBJECTS/Flui | Kinematics of Fluids | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur1.htm | | |
| | 111 /0 20 Kanpur 1. nulli | | |
| 49. | file:///D:/Department/SUBJECTS/Flui | Equations of Motion | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT% 20Kanpur3.htm | | |
| | 111/0201xmput3.nun | | |
| | 1 | | <u> </u> |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy & e-Resources

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

AY:2022-23

| 50 | file:///D:/Deportment/GLDIECTG/E1-: | Dimensional Analysis | Maala |
|-----|--|---|--------|
| 50. | file:///D:/Department/SUBJECTS/Fluid%20Mechanics/Fluid%20Mechanics | Dimensional Analysis | Mech. |
| | %20Notes/fluid%20mechanics%20N | | Engg. |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20KAnpur4.htm | | |
| 51. | file:///D:/Department/SUBJECTS/Flui | Ideal Flow | Mech. |
| 31. | d%20Mechanics/Fluid%20Mechanics | rucai i iow | Engg. |
| | | | Lings. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur5.htm | | |
| 52. | file:///D:/Department/SUBJECTS/Flui | Viscous Incompressible flow | Mech. |
| 52. | d%20Mechanics/Fluid%20Mechanics | w is could incompressione incom | Engg. |
| | %20Notes/fluid%20mechanics%20N | | 88 |
| | | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT% 20Kanpur6.htm | | |
| 53. | file:///D:/Department/SUBJECTS/Flui | Flow over flat plate and Boundary Layer | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | Equations | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur7.htm | | |
| | ii i /o Bortang ar / man | | |
| 54. | file:///D:/Department/SUBJECTS/Flui | Flow through pipes | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur9.htm | | |
| | - | | |
| 55. | file:///D:/Department/SUBJECTS/Flui | Compressible flow | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur10.htm | | |
| | * | | |
| 56. | , 1 | Fluid Mechanics | Mech. |
| | supplied and solved in the class. | | Engg. |
| | 2) Notes has been supplied to the | | |
| | students. | | |
| | 3) The soft and hard copies of VTU | | |
| | question papers provided to the students. | | |
| | students. | | |
| | | | 1 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics Pedagogy & e-Resources Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE AY:2022-23

List of Pedagogical Initiatives and Innovative Teaching aids used by the teachers to promote experiential learning among the students (2018-19 to 2023-24)

| S.N. | Faculty Name | Pedagogical initiatives and Innovative teaching aids | Course/Topic | Branch |
|------|-----------------------|--|--|--------|
| 1 | Prof. S. S. Kamate | Models are prepared to teach the basics of coordinate systems. | Concept of Spherical Coordinate System, Cylindrical Coordinate Sytem& Cartesian Coordinate Sstem https://youtu.be/CW3WaE798dU | ECE |
| 2 | Prof. P. V. Patil | Concept of Superposition Theorem | Network Theory https://youtu.be/bLqBJCdZgjY | ECE |

List of online resources & Web links(2018-19 to 2023-24)

| S.N. | Faculty Name | Online resources | Web links | Branch |
|------|-------------------|-----------------------------|-------------------------------|--------|
| 1 | Prof. S. S. Patil | Introduction to Embedded | https://www.youtube.com/watch | ECE |
| | | Systems | ?v=OG91AlP_2XA | |
| | | The Typical Embedded | https://www.youtube.com/watch | ECE |
| | | Systems | ?v=glEPCAZmcvA | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=0vO14GLGRUs | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=bKPCxj0hiiw | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=aPgZpxQijJ0 | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=XZ8hClk0uSQ | |
| | | Characteristics and Quality | https://www.youtube.com/watch | ECE |
| | | Attributes of Embedded | ?v=jbdtPYtGeY0 | |
| | | Systems | | |
| | | Embedded Systems- | https://www.youtube.com/watch | ECE |
| | | Application and domain | ?v=hiljMGpCAno | |
| | | specific | | |
| | | Hardware Software Co-design | https://www.youtube.com/watch | ECE |
| | | and Program modeling | ?v=J-beEbEPNSY | |
| | | Embedded Firmware Design | https://www.youtube.com/watch | ECE |
| | | and Development | ?v=huBPGmYj138 | |
| | | Real-Time Operating | https://www.youtube.com/watch | ECE |
| | | System(RTOS) based ES | ?v=qLxEeRpFtUo | |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in **IQAC**

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

| | | design | https://www.youtube.com/watch ?v=4RHxzX49vRU | ECE |
|---|------------|---------------------------------|---|-----|
| | | | https://www.youtube.com/watch ?v=9WhPUnwALdc | ECE |
| | | | https://www.youtube.com/watch ?v=MgfvdUNTo6o | ECE |
| | | | https://www.youtube.com/watch ?v=FsJh0b_KWGM | ECE |
| 2 | Dr.S.S. | Gram Schmidt | Digital Communication | ECE |
| | Ittannavar | Orthogonalization Procedure | https://www.youtube.com/watch? v=HX4EMJqdeZI | |
| 3 | Prof.S.S. | Introduction to Control Problem | Control Systems | ECE |
| | Malaj | concepts of Stability | https://youtube.com/watch?v=vV | |
| | - | | FDm_CdQw | |
| | | | | |
| 4 | Prof.P.V. | Microcontroller | https://onlinecourses.nptel.ac.in/n | ECE |
| | Patil | | oc24 ee46/preview | |
| 5 | Prof.P.V. | Microcontroller | https://youtube.com/playlist?list= | ECE |
| | Patil | | PLcwp2fRcIXJUFthj5CKNNam | |
| | | | SBDtf3We7A&si=4Xyi62FhRWj | |
| | | | <u>vuMz_</u> | |

E-resource

| S.N. | ICT enabled tools, Video lectures, e-resource etc | Course/ Topic | Dept. |
|------|--|-----------------|-------|
| 1. | https://nptel.ac.in/courses/108102095/ | | |
| 2. | https://youtu.be/l6M6FvjUdTI | | |
| 3. | https://youtu.be/c3oKdjDImXo | | |
| 4. | https://youtu.be/jaOxeB-BQ8E | | |
| 5. | https://youtu.be/6Zm9Kt5-cxQ | Analog | |
| 6. | https://youtu.be/iLCQUHJkFM8 | Electronic | |
| 7. | https://youtu.be/SpvmeG1hs7k | Circuits | |
| 8. | https://youtu.be/0K6vyowDAKM | | EEE |
| 9. | https://youtu.be/Sr-Sm_d3oVE | | |
| 10. | https://youtu.be/Pe6BmuAc2OY | | |
| 11. | https://youtu.be/btphIK1d4Ro | | |
| 12. | http://nptel.vtu.ac.in/econtent/courses/EEE/15EE32/index.php | Network | |
| 13. | http://nptel.vtu.ac.in/econtent/courses/ECE/15EC34/index.php | Analysis | |
| 14. | https://www.youtube.com/watch?v=3rOvQ3qFZpI | Measurements | |
| 15. | https://www.youtube.com/watch?v=EWTPvrJQG 4 | and | |
| 16. | https://www.youtube.com/watch?v=jyRT2dJAuAg | Instrumentation | |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in

100 O TO

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| 17. | https://www.youtube.com/watch?v=u5lh_nyCXEs | | |
|-----|---|-----------------|-----|
| 18. | https://www.youtube.com/watch?v=xX2YjPwZY-g | | |
| 19. | https://www.youtube.com/watch?v=jlPzA95zXKs | | |
| 20. | https://www.youtube.com/watch?v=KsykW43-g24 | | |
| 21. | https://www.youtube.com/watch?v=wO6Eh r8IEs | | |
| 22. | https://www.youtube.com/watch?v=-orsmxHOLOM | | |
| 23. | https://www.youtube.com/watch?v=Bf3547WB5qs | | |
| 24. | https://www.youtube.com/watch?v=SNMI2skCOpQ | | |
| 25. | https://www.youtube.com/watch?v=uy9lZCdkQIM&list=P | | |
| 26. | https://www.youtube.com/watch?v=Yg6XsepGCKY&list= | Electrical | |
| | PLD4ED2FAF3C155625&index=2 | Power | |
| 27. | https://www.youtube.com/watch?v=45_nQN- | Generation | |
| | 9XSs&list=PLD4ED2FAF3C155625&index=3 | | |
| 28. | https://www.youtube.com/watch?v=MqWeH3zp5GY&list | | |
| | =PLXgxwcpUnIG-EvGsehcV8Rj7VZcsd1JYB | | |
| 29. | https://www.youtube.com/watch?v=liRPtvj7bFU&list=PL692A7B9169 | Micro | |
| 20 | 289C4F | controller | |
| 30. | https://www.youtube.com/watch?v=zXMklO-jxIo | | |
| 31. | https://www.youtube.com/watch?v=EEaOR2p9G2k | | |
| 32. | https://www.youtube.com/watch?v=pA6K5NgWTow | | |
| 33. | https://www.youtube.com/watch?v=1Auay7ja2oY&list=PL6D4C86948 7881352 | | |
| 34. | https://www.youtube.com/watch?v=PEg0zb3cg2A&list=PL6D4C8694 | | |
| | 87881352&index=2 | | |
| 35. | https://www.youtube.com/watch?v=p 4j x4ZyzM&list=PL6D4C8694 87881352&index=3 | Power | |
| 36. | https://www.youtube.com/watch?v=QqFlHhSkayw&list=PL6D4C8694 87881352&index=4 | Electronics | |
| 37. | https://www.youtube.com/watch?v=R- | | |
| | ZGu5KAF90&list=PL6D4C869487881352&index=5 | | |
| 38. | https://www.youtube.com/watch?v=ZYzuUWypgVw&list=PL6D4C86 | | |
| | 9487881352&index=9 | | |
| 39. | https://youtu.be/qmcriUdYBW0?list=PL59861DBF8EC85491 | | |
| 40. | https://youtu.be/KOE_ec-MkAA?list=PL59861DBF8EC85491 | Transformer & | |
| 41. | https://youtu.be/cneuckplrtI?list=PL59861DBF8EC85491 | Induction | |
| 42. | https://youtu.be/pNTsowZYUSs?list=PL59861DBF8EC85 | Machines | |
| 43. | https://youtu.be/dZyO5gcWP- | Macinics | |
| | o?list=PLLQiBbMXygz7zALKpbP87g4QaS9YGesZ5 | | |
| 44. | http://www.nptelvideos.in/2012/12/signals-and-system.html | Signals and | |
| 45. | https://www.youtube.com/watch?v=xrVWB9VYZ64&list=PLq- | Systems | EEE |
| | Gm0yRYwTjwxaqapPsSAHzs4_nkQLVr | | |
| 46. | https://www.youtube.com/watch?v=879pXoml0XI | | |
| 47. | https://youtu.be/NiHPu5PltCY?list=PL59861DBF8EC85491 | D.C. Machines | |
| 48. | https://youtu.be/E15Xs-5rFS0?list=PL59861DBF8EC85491 | and Synch. | |
| 49. | https://youtu.be/b24jORRoxEc | Machines | |
| 50. | https://youtu.be/o9-xSeWuhng?list=PL59861DBF8EC85491 | | |
| 51. | https://www.youtube.com/watch?v=ZjcLlHcsDZs | Linear IC's and | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 52. | https://www.youtube.com/watch?v=egCiRSasxpw | Applications | |
|-----|---|----------------|--|
| 53. | https://www.youtube.com/watch?v=TQlyLhOFyKI | | |
| 54. | https://www.youtube.com/watch?v=gbUXbaxvX94 | | |
| 55. | https://pt.coursera.org/lecture/electronics/3-2-first-order-highpass- | | |
| | <u>filters-OhCWF</u> | | |
| 56. | https://www.youtube.com/watch?v=gEeF8sEQTEc | | |
| 57. | https://www.youtube.com/watch?v=vVfLRM2DgLY | High Voltage | |
| 58. | https://www.youtube.com/watch?v=yP7OACmLP48 | Engg. | |
| 59. | https://www.youtube.com/watch?v=1bkiWJKxkfo | | |
| 60. | https://www.youtube.com/watch?v=aMux1jYFFY8&list=PLc259Dvju | | |
| | XMDo8n BFwoNwAagCxPL0dDk&index=5&t=0s | | |
| 61. | https://www.youtube.com/watch?v=3aQsJYZaw_U | | |
| 62. | https://www.youtube.com/watch?v=PKXPeTvmVQg | | |
| 63. | https://www.youtube.com/watch?v=CODhHSpWp3k | | |
| | | | |
| 64. | https://nptel.ac.in/courses/108104052/ | Power System | |
| | | Operation and | |
| 65. | https://www.youtube.com/watch?%2049EM82UO99c | Control | |
| | | | |
| 66. | https://nptel.ac.in/courses/11210422/22 | Renewable | |
| | | Energy sources | |
| 67. | https://nptel.ac.in/courses/18105058/37 | | |
| | | | |
| 68. | https://www.youtube.com/wtch?v=GRwJqD4StEU | | |
| | 40007040 | | |
| 69. | https://nptel.ac.in/courses/10805060/ | Electrical | |
| | | Power | |
| 70. | https://nptel.ac.in/courses/11314008/38 | Utilization | |
| | | | |

List of Pedagogical Initiatives and Innovative Teaching aids used by the teachers to promote experiential learning among the students

AY: 2018-19

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|--|---|-------|
| 01 | ICT Enabled Tools: PPT | Management & Entrepreneurship for IT Industry | CSE |
| 02 | ICT Enabled Tools: PPT, Notes | Automata Theory & Computability | CSE |
| 03 | ICT Enabled Tools: Notes | Data Structures & Application | CSE |
| 04 | ICT Enabled Tools: PPT, Notes | Cloud Computing & Its Application | CSE |
| 05 | ICT Enabled Tools: PPT, Notes | Advanced Java and J2EE | CSE |
| 06 | ICT Enabled Tools: PPT | Computer Organization | CSE |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC
Academics
Pedagogy & e-Resources
AY:2022-23

| 07 | ICT Enabled Tools: PPT, Notes | Computer Programming & Solving | CSE |
|----|-------------------------------|--|-----|
| 08 | ICT Enabled Tools: PPT, Notes | .Net Framework For Application Development | CSE |
| 09 | ICT Enabled Tools: Notes | Discrete Mathematical Structure | CSE |
| 10 | ICT Enabled Tools: PPT, Notes | Web Technology & Its Applications | CSE |
| 11 | ICT Enabled Tools: Notes | Introduction to Software Testing | CSE |
| 12 | ICT Enabled Tools: PPT, Notes | Machine Learning | CSE |
| 13 | ICT Enabled Tools: PPT, Notes | Unix Shell Programming | CSE |
| 14 | ICT Enabled Tools: PPT, Notes | Database Management Systems | CSE |
| 15 | ICT Enabled Tools: PPT, Notes | Storage Area Networks | CSE |
| 16 | ICT Enabled Tools: PPT, Notes | Computer Networks | CSE |
| 17 | ICT Enabled Tools: PPT, Notes | C Programming for Problem Solving | CSE |

AY: 2019-20

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|--|---|-------|
| 01 | ICT Enabled Tools: PPT | Management & Entrepreneurship for IT Industry | CSE |
| 02 | ICT Enabled Tools: PPT, Notes | Automata Theory & Computability | CSE |
| 03 | ICT Enabled Tools: Notes | Data Structures & Application | CSE |
| 04 | ICT Enabled Tools: PPT, Notes | Cloud Computing & Its Application | CSE |
| 05 | ICT Enabled Tools: PPT, Notes | Advanced Java and J2EE | CSE |
| 06 | ICT Enabled Tools: PPT | Computer Organization | CSE |
| 07 | ICT Enabled Tools: PPT, Notes | Computer Programming & Solving | CSE |
| 08 | ICT Enabled Tools: PPT, Notes | .Net Framework For Application Development | CSE |
| 09 | ICT Enabled Tools: Notes | Discrete Mathematical Structure | CSE |
| 10 | ICT Enabled Tools: PPT, Notes | Web Technology & Its Applications | CSE |
| 11 | ICT Enabled Tools: Notes | Introduction to Software Testing | CSE |
| 12 | ICT Enabled Tools: PPT, Notes | Machine Learning | CSE |
| 13 | ICT Enabled Tools: PPT, Notes | Unix Shell Programming | CSE |
| 14 | ICT Enabled Tools: PPT, Notes | Database Management Systems | CSE |
| 15 | ICT Enabled Tools: PPT, Notes | Storage Area Networks | CSE |
| 16 | ICT Enabled Tools: PPT, Notes | Computer Networks | CSE |
| 17 | ICT Enabled Tools: PPT, Notes | C Programming for Problem Solving | CSE |

AY: 2020-21

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|---|---|-------|
| 01 | Models / Charts | Computer Graphics Lab with Mini Projects(Recursive subdivision of tetrahendra to form 3D sierpinski gasket) | CSE |
| 02 | ICT Enabled Tools: Simulation | Application Development using Python Programming (Function Definition & Function Call) | CSE |

10000 mm

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

AY: 2021-22

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|---|---|-------|
| 01 | Video Lectures | Big Data Analytics (Decision Trees) | CSE |
| 02 | ICT Enabled Tools: PPT | Data Mining & Ware Housing (Apache Pig) | CSE |
| 03 | ICT Enabled Tools: PPT | Big Data Analytics(Decision Trees) | CSE |
| 04 | ICT Enabled Tools: PPT | System Software and Compilers (Introduction to Compilers andLexical Analysis) | CSE |
| 05 | ICT Enabled Tools: PPT | Object Oriented Concepts (Objects and Arrays C++ Part) | CSE |
| 06 | NPTEL Video Lectures | System Software and Compilers (Parsing) | CSE |
| 07 | Models / Charts | Data Mining and Data Warehousing (OLAP Operations) | CSE |
| 08 | NPTEL Video Lectures | Web Technology and it's Applications (HTML Forms) | CSE |
| 09 | NPTEL Video Lectures | Application Development Using Python (Exception Handling and Strings) | CSE |
| 10 | Models / Charts | Artificial Intelligence and Machine Learning (Machine Learning Process and Types) | CSE |
| 11 | NPTEL Video Lectures | Computer Networks and Security (Universal Hashing) | CSE |
| 12 | NPTEL Video Lectures | Big Data Analytics (Mongo DB) | CSE |
| 13 | Models / Charts | Big Data Analytics (Apache Hadoop Ecosystem) | CSE |
| 14 | NPTEL Video Lectures | Management & Entrepreneurship for IT Industry (Entrepreneurship and Employment) | CSE |
| 15 | Models / Charts | Management & Entrepreneurship for IT Industry (Corporate/Social Entrepreneur) | CSE |
| 16 | Models / Charts | Computer Networks & Security (Network Security Mechanisms) | CSE |

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|---|---|-------|
| 01 | Models/ Charts | Database Management Systems (Three Schema Architecture) | CSE |
| 02 | Models/ Charts | Cryptography (Data Encryption Standard) | CSE |
| 03 | ICT Enabled Tools : Technical Session | Python Application Programming (Setting up Python Environment to create, run and bug) | CSE |
| 04 | Models/ Charts | Python Application Programming (Cheat Sheets of Python) | CSE |
| 05 | NPTEL Video Lectures | Web Technology & Its Applications (HTML Forms) | CSE |
| 06 | NPTEL Video Lectures | Design & Analysis of Algorithms (Greedy Method) | CSE |
| 07 | NPTEL Video Lectures | Web Technology & Its Applications (Sate in Web Applications) | CSE |
| 08 | Models/ Charts | Design & Analysis of Algorithms (Backtracking) | CSE |



SJPN Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

| Accredited at 'A | ' Grade by NAAG | 2 &Programmes Accredited | by NBA: CSE &ECE |
|------------------|-----------------|--------------------------|------------------|
|------------------|-----------------|--------------------------|------------------|

| 09 | Models/ Charts | Storage Area Networks | CSE |
|----|--|--|------------|
| 10 | Models/ Charts | Models/ Charts Computer Graphics & Visualization (OpenGL Primitives, CG Components, 2D Transformations) | |
| 11 | Models/ Charts Operating System (Types, Components, Scheduling and Deadlock) | | CSE |
| 12 | Models/ Charts | Programming in Java (Cheat Sheets of Java) | CSE |
| 13 | ICT Enabled Tools : Technical Session | Programming in Java (Setting up Java JDK Environment to create, run and debug) | CSE |
| 14 | Models/ Charts | Introduction to Python Programming (Visual execution of python programs) | CSE |
| 15 | Models/ Charts | Principles of programming using C (Visual execution of C programs) | CSE |
| 16 | Tool Demonstration | Data Mining & Data Warehousing (Data Vigualization | |
| 17 | Tool Demonstration | Big Data Analytics (Apache Hive) | CSE |
| 18 | NPTEL Video Lectures | Principles of C Programming (Structures & Pointers) | |
| 19 | Models/ Charts Principles of C Programming (Simulation of Searching & Sorting Techniques) | | CSE CSE |
| 20 | Models / Charts | Principles of C Programming (Visualize the execution of C Programs) | CSE |
| 21 | Models / Charts | Unix Programming (UNIX System Architecture) | CSE |
| 22 | NPTEL Video Lectures | Unix Programming (File System in UNIX) | CSE |
| 23 | Models / Charts | System Software & Compilers (Phases of Compiler) | CSE |
| 24 | NPTEL Video Lectures | Compiler Design (Syntax Directed Translation) | CSE |
| 25 | Models / Charts Introduction to Python Programming (Demonstrate & visualize basic data types (list, tuple, directory) and code execution. | | CSE |
| 26 | NPTEL Video Lectures | Data Structures & Applications (Arrays) | |
| 27 | Models / Charts | Data Structures & Applications (Tower of Honoi | |
| 28 | NPTEL Video Lectures | Automata Theory & Computability (Turing Machines) | CSE |

Dr.S.N.Topannavar

I@AC Coordinator

Hirasugar Institute of Technology

Nidasoshi-591236



Dr.S.C.Kamate
Principal
PRINCIPAL
Hirasugar Institute of Technology
Nidasoshi-591 236

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

List of ICT- enabled tools including e-resources, Pedagogical Initiatives, and Teaching-aids used for effective teaching-learning process

The institute is permanently affiliated to the Visvesvaraya Technological University (VTU), Belgaum. The VTU'sBoard of Studies (BoS) has published the curriculum (2021 and 2022 Scheme of Studies), which is revised in line with the NEP-2020 of all courses in its website link: https://vtu.ac.in/en/b-e-scheme-syllabus/. Each syllabus of courses contains, 5 modules, text books, reference books, evaluation guidelines, pedagogies such as e-resources, video lectures, supporting experiments, field visits etc., along with these, the 4-5 course outcomes (COs) are also suggested. The awareness to access the VTU curriculum published and its implementation guidelines have been educated to the students during their "Induction Program" and also in the starting introductory classes. The faculty members are also referring these contents to plan teaching-learning lessons/activities/pedagogies and to define the 5 course outcomes (COs) for each module for mapping with POs and assessment of attainment purpose. The following are the VTU weblinks of syllabus, where e-resources are mentioned, Pedagogies and other ICT tools including online resources for effective teaching and learning process. All the class rooms are well connected with 104 Mbps internet and LCD projector to disseminate e-resources in the regular classes. All teachers are utilizing these facilities based on their syllabus content regularly.

| S.N. | Online resources | Web links |
|------|----------------------------------|--|
| 1 | NPTEL Courses on VTU Website | https://vtu.ac.in/en/online-course-jan-june-2023/ |
| 2 | VTU Model Question papers | https://vtu.ac.in/en/model-question-paper-b-e- b-tech-b-arch/ |
| 3 | VTU Study materials | https://vtu.ac.in/en/study-material/ |
| 4 | VTU Board of Studies Proceedings | https://vtu.ac.in/en/board-of-studies- proceedings/ |
| 5 | VTU Academic Calendar | https://vtu.ac.in/academic-calendar/ |
| 6 | VTU NISP | https://vtu.ac.in/en/nisp-2/ |
| 7 | NPTEL Courses on VTU Website | https://vtu.ac.in/en/nptel-online-courses/ |
| 8 | VTU OPAC Library | http://library.vtu.ac.in/ |

1000 pp

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| 1 | VTU Board of Studies (BoS) recommended e-Resources which are mentioned in the Syllabus (2021 | | | |
|----|--|----------------------|--|--|
| (V | Veh link | s. Video Lectures. 1 | and 2022 Scheme of Study) MOOCs, e-Shikhsana Program, NPTEL, EDUSAT, YouTube, Vlab etc.) | |
| S | Cour | VTU Syllabus | Topic with e-Resource | |
| | se | link | | |
| N | | where e- | | |
| • | | resources are | | |
| | | mentioned | | |
| 1 | Math | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 | |
| | emati | df/2022syll/BMA | http://www.class-central.com/subject/math(MOOCs) | |
| | cs-I | <u>TS101.pdf</u> | http://academicearth.org/ | |
| | for | | VTUe-Shikshana Programand VTU EDUSAT Program | |
| | CSE I | | | |
| | Year | | | |
| 2 | Physi | https://vtu.ac.in/p | Laser: | |
| | cs for | df/2022syll/BPH | https://www.youtube.com/watch?v=WgzynezPiyc | |
| | CSE I | YS102.pdf | Superconductivity | |
| | Year | | https://www.youtube.com/watch?v=MT5Xl5ppn48 | |
| | | | Optical Fiber: | |
| | | | https://www.youtube.com/watch?v=N_kA8EpCUQo Quantum Mechanics | |
| | | | https://www.youtube.com/watch?v=p7bzE1E5PMY&t=136s | |
| | | | Quantum Computing: https://www.youtube.com/watch?v=jHoEjvuPoB8 | |
| | | | Quantum Computing: https://www.youtube.com/watch?v=ZuvCUU2jD30 | |
| | | | Physics of Animation: https://www.youtube.com/watch?v=kj1kaA_8Fu4 | |
| | | | Statistical Physics Simulation: https://phet.colorado.edu/sims/html/plinko- | |
| | | | probability/latest/plinkoprobability_en. | |
| | | | html NPTEL Superconductivity: | |
| | | | https://archive.nptel.ac.in/courses/115/103/115103108/ | |
| | | | NPTEL Quantum | |
| | | | Computing: https://archive.nptel.ac.in/courses/115/101/115101092 | |
| | | | Virtual LAB: | |
| | | | https://www.vlab.co.in/participating-institute-amrita-vishwa-vidyapeetham | |
| | | | Virtual | |
| | | | LAB: https://vlab.amrita.edu/index.php?sub=1&brch=189∼=343&cnt=1 | |
| 3 | Chem | https://vtu.ac.in/p | http://libgen.rs/ | |
| | istry | df/2022syll/BCH | https://nptel.ac.in/downloads/122101001/ | |
| | for | ES102.pdf | https://nptel.ac.in/courses/104/103/104103019/ | |
| | CSE I | | https://ndl.iitkgp.ac.in/ | |
| | Year | | https://www.youtube.com/watch?v=faESCxAWR9khttps://www.youtube.co | |
| | | | m/watch?v=TBqXMWaxZYM&list=PLyhmwFtznRhuz8L1bb3X9IbHrDM | |
| | | | jHWWh https://www.voutube.com/wotch?v=i5Hml6KN4TI | |
| | | | https://www.youtube.com/watch?v=j5Hml6KN4TI https://www.youtube.com/watch?v=X9GHBdyYcyo | |
| | | | https://www.youtube.com/watch?v=1xWBPZnEJk8 | |
| | | | https://www.youtube.com/watch?v=1xwBFZhEJKo https://www.youtube.com/watch?v=wRAo-M8xBHM | |
| | | | ActivityBasedLearning | |
| | | | (SuggestedActivitiesinClass)/PracticalBasedlearning | |
| | | | https://www.vlab.co.in/broad-area-chemical-sciences | |
| | l | | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics
Pedagogy &
e-Resources

| | | | https://domonstrations.vvolfusur.com/tonics.nhm |
|----------|----------|---------------------|--|
| | | | https://demonstrations.wolfram.com/topics.php |
| _ | | • | https://interestingengineering.com/science |
| 4 | C- | https://vtu.ac.in/p | 1.https://elearning.vtu.ac.in/econtent/courses/video/BS/15PCD23html |
| | Progr | df/2022syll/BPO | 2. https://nptel.ac.in/courses/106/105/106105171/ |
| | ammi | <u>PS103.pdf</u> | MOOC courses can be adopted for more clarity in understanding the topics |
| | ng for | | and verities of problem solving methods. |
| | CSE I | | https://tinyurl.com/4xmrexre |
| | Year | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | learning |
| | | | • Quizzes |
| | | | Assignments |
| | | | • Seminars |
| | Math | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| | emati | df/2022syll/BMA | http://www.class-central.com/subject/math(MOOCs) |
| | cs-I | TE101.pdf | http://academicearth.org/ |
| | for | | VTU e-Shikshana Program |
| | EEE I | | VTU EDUSAT Program Activity Based Learning (Suggested Activities in |
| | Year | | Class)/ Practical Based learning |
| | | | • Quizzes |
| | | | • Assignments |
| | | | • Seminar |
| | Physi | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): Laser: |
| | cs for | df/2022syll/BPH | https://www.britannica.com/technology/laser,k |
| | EEE I | YE102.pdf | Laser: |
| | Year | <u>11102.par</u> | https://nptel.ac.in/courses/115/102/115102124/ |
| | 1 0012 | | Quantummechanics: |
| | | | https://nptel.ac.in/courses/115/104/115104096/ |
| | | | Physics: |
| | | | http://hyperphysics.phy-astr.gsu.edu/hbase/hframe. |
| | | | html Numerical Aperture of fiber: |
| | | | https://bop-iitk.vlabs.ac.in/exp/numerical-aperture-measurement 16-2-2023 |
| | | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | learning: |
| | | | http://nptel.ac.in |
| | | | https://swayam.gov.in |
| | | | https://www.vlab.co.in/participating-institute-amrita-vishwa- |
| | | | vidyapeethamhttps://vlab.amrita.edu/index.php?sub=1&brch=189∼=34 |
| | | | 3&cnt=1 |
| | | | https://virtuallabs.merlot.org/vl_physics.html |
| | | | https://phet.colorado.edu |
| | | | https://www.myphysicslab.com |
| | Chem | https://vtu.ac.in/p | WeblinksandVideoLectures(e-Resources): |
| | istry | df/2022syll/BCH | http://libgen.rs/ |
| | for | EE102.pdf | https://nptel.ac.in/downloads/122101001/ |
| | EEE I | | https://nptel.ac.in/courses/104/103/104103019/ |
| | Year | | https://ndl.iitkgp.ac.in/ |
| | | | https://www.youtube.com/watch?v=faESCxAWR9khttps://www.youtube.co |
| | | | m/watch?v=TBqXMWaxZYM&list=PLyhmwFtznRhuz8L1bb3X9IbHrDM |
| <u> </u> | <u> </u> | I | The state of the s |

60000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics
Pedagogy &
e-Resources

| | 1 | | |
|---|-------------|---------------------|--|
| | | | <u>jHWWh</u> |
| | | | https://www.youtube.com/watch?v=j5Hml6KN4TI |
| | | | https://www.youtube.com/watch?v=X9GHBdyYcyo |
| | | | https://www.youtube.com/watch?v=1xWBPZnEJk8 |
| | | | https://www.youtube.com/watch?v=wRAo-M8xBHM |
| | | | ActivityBasedLearning(SuggestedActivitiesinClass)/PracticalBased |
| | | | Learning: |
| | | | https://www.vlab.co.in/broad-area-chemical-sciences |
| | | | https://demonstrations.wolfram.com/topics.php |
| | | | https://interestingengineering.com/science |
| | Elem | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): www.nptel.ac.in |
| | ents | df/2022syll/BEE | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | of | | |
| | | <u>E103.pdf</u> | learning VI |
| | Electr | | Wherever required, faculty shall demonstrate the concepts through |
| | ical | | laboratory experiments. |
| | Engin | | |
| | eerin | | |
| | g I | | |
| | Year | | |
| | Basic | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | s of | df/2022syll/BBE | https://nptel.ac.in/courses/122106025 |
| | Electr | E103.pdf | https://nptel.ac.in/courses/108105132 |
| | onics | | https://nptel.ac.in/courses/117104072 |
| | for I | | |
| | year | | |
| | Math | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | emati | df/2022syll/BMA | http://nptel.ac.in/courses.php?disciplineID=111 |
| | cs for | <u>TM101.pdf</u> | http://www.class-central.com/subject/math(MOOCs) |
| | Mech | <u>1111101.pu1</u> | http://academicearth.org/ |
| | | | |
| | anical | | VTU e-Shikshana Program |
| | Engin | | VTU EDUSAT Program Activity-Based Learning (Suggested Activities in |
| | eerin | | Class)/Practical-Based Learning: |
| | g I | | • Quizzes |
| | year | | Assignments |
| | | | • Seminar |
| | Math | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | emati | df/2022syll/BMA | http://nptel.ac.in/courses.php?disciplineID=111 |
| | cs-I | T201.pdf | http://www.class-central.com/subject/math(MOOCs) |
| | for | | http://academicearth.org/ |
| | Mech | | VTU e-Shikshana Programand VTU EDUSAT Program Activity-Based |
| | anical | | Learning (Suggested Activities in Class)/ |
| | | | |
| | Engin eerin | | Practical-Based Learning : |
| | | | • Quizzes |
| | g I | | Assignments |
| | Year | | Seminar |
| | Physi | https://vtu.ac.in/p | Simple Harmonic motion: |
| | cs for | df/2022syll/BPH | https://www.youtube.com/watch?v=k2FvSzWeVxQ |
| | Mech | YM102.pdf | Shock waves: |
| ь | | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| anical | https://physics.info/shock/ |
|--|---|
| Engin | Shock waves and its applications: |
| eerin | https://www.youtube.com/watch?v=tz_3M3v3kxk |
| gI | Stress- strain curves: |
| Year | https://web.mit.edu/course/3/3.11/www/modules/ss.pdf |
| | Stress curves: |
| | https://www.youtube.com/watch?v=f08Y39UiC-o |
| | Fracture in materials: |
| | https://www.youtube.com/watch?v=x47nky4MbK8 |
| | Thermo-electricity: |
| | |
| | https://www.youtube.com/watch?v=2w7NBuu5w9c&list=PLtkeUZItwHK5y6qy1G |
| | Fxa4Z4Rc mzUaaz6 |
| | Thermoelectric generator and coolers: |
| | https://www.youtube.com/watch?v=NruYdb31xk8 |
| | Cryogenics: |
| | https://cevgroup.org/cryogenics-basics-applications/ |
| | Liquefaction of gases: |
| | https://www.youtube.com/watch?v=aMelwOsGpIs |
| | Virtual lab: |
| | https://www.vlab.co.in/participating-institute-amrita-vishwa-vidyapeetham |
| | Material characterization: |
| | https://onlinecourses.nptel.ac.in/noc20_mm14/preview |
| | https://www.encyclopedia.com/science-and- |
| | technology/physics/physics/cryogenicshttps://www.usna.edu/NAOE/_files/ |
| | documents/Courses/EN380/Course_Notes/Ch10_Deformation.pdf 16-2- |
| | <u>2023 4</u> |
| | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | Learning: |
| | http://nptel.ac.in |
| | https://swayam.gov.in |
| | https://virtuallabs.merlot.org/vl_physics.html |
| | https://phet.colorado.edu |
| | https://www.myphysicslab.com |
| Chem https://vtu.ac.in/p | http://libgen.rs/ |
| istry df/2022syll/BCH | https://nptel.ac.in/downloads/122101001/ |
| for <u>EM102.pdf</u> | https://nptel.ac.in/courses/104/103/104103019/ |
| Mech | https://ndl.iitkgp.ac.in/ |
| anical | https://www.youtube.com/watch?v=faESCxAWR9khttps://www.youtube.co |
| Engin | m/watch?v=TBqXMWaxZYM&list=PLyhmwFtznRhuz8L1bb3X9IbHrDM |
| eerin | iHWWh |
| gI | https://www.youtube.com/watch?v=j5Hml6KN4TI |
| Year | https://www.youtube.com/watch?v=X9GHBdyYcyo |
| | https://www.youtube.com/watch?v=1xWBPZnEJk8 |
| | https://www.youtube.com/watch?v=wRAo-M8xBHM |
| | ActivityBasedLearning(SuggestedActivitiesinClass)/ |
| | PracticalBasedlearning: |
| | https://www.vlab.co.in/broad-area-chemical-sciences |
| | https://demonstrations.wolfram.com/topics.php |
| | https://interestingengineering.com/science |
| | soshi-591 236. Tag: Hukkeri. Dist: Belagayi. Karnataka. India. |

60000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| T1 | 1 | |
|--------|---------------------|--|
| Elem | https://vtu.ac.in/p | https://www.tlv.com/global/TI/steam-theory/principal-applications-for- |
| ents | df/2022syll/BEM | steam.html |
| of | EM103.pdf | https://www.forbesmarshall.com/Knowledge/SteamPedia/About- |
| Mech | | Steam/Fundamental-Applications-of-Steam |
| anical | | https://rakhoh.com/en/applications-and-advantages-of-steam-in- |
| Engin | | manufacturing- and process-industry/) |
| eerin | | |
| g for | | Videos Makino (For Machine Tool Operation) |
| I year | | Activity Based Learning (Suggested Activities in Class)/ |
| Ĭ | | |
| | | Practical Based learning |
| | | 1. Visit to any manufacturing/aero/auto industry or any power plant |
| | | 2. Demonstration of lathe/milling/drilling/CNC operations |
| | | 3. Demonstration of working of IC engine/refrigerator |
| | | 4. Demonstration of metal joining process |
| | | 5. Video demonstration of latest trends in mobility/robotics |
| Innov | https://vtu.ac.in/p | |
| | _ | |
| ation | df/2022syll/BID | 2. https://docs.oracle.com/cd/E11108_02/otn/pdf/. /E11087_01.pdf |
| And | <u>TK108.pdf</u> | 3. www.bizfilings.com |
| Desig | | 4. https://www.mindtools.com/brainstm.html |
| n | | 5. https://www.quicksprout.com/ . /how-to-reverse-engineer-your-competit |
| Think | | 6. www.vertabelo.com/blog/documentation/reverse-engineering |
| ing | | https://support.microsoft.com/en-us/kb/273814 |
| | | 7. https://support.google.com/docs/answer/179740?hl=en |
| | | 8. https://www.youtube.com/watch?v=2mjSDIBaUIM |
| | | thevirtualinstructor.com/foreshortening.html |
| | | https://dschool.stanford.edu//designresources//ModeGuideBOOTCAMP |
| | | 2010L.pdf |
| | | https://dschool.stanford.edu/use-our-methods/ |
| | | https://www.interactiondesign.org/literature/article/5-stages-in-the-design- |
| | | thinking-process |
| | | http://www.creativityatwork.com/design-thinking-strategy-for- |
| | | innovation/498 |
| | | https://www.nngroup.com/articles/design-thinking/ |
| | | https://designthinkingforeducators.com/design-thinking/ |
| | | www.designthinkingformobility.org/wp- |
| | | content//10/NapkinPitch Worksheet.pdf |
| | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | |
| | | learning |
| | | http://dschool.stanford.edu/dgift/ |
| T . | 1 | https://onlinecourses.nptel.ac.in/noc19_mg60/preview |
| Intro | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| ducti | df/2022syll/BES | https://www.youtube.com/watch?v=nGfVTNfNwnk&list=PLOSWwFV98rf |
| on to | CK104A.pdf | <u>KXq2KBphJz95rao7q8PpwThttps://www.youtube.com/watch?v=nkg7VNW9U</u> |
| Civil | | Cc&list=PLOSWwFV98rfKXq2KBphJz95rao7q8PpwT&i ndex=2 |
| Engin | | https://www.youtube.com/watch?v=ljDIIMvxeg&list=PLOSWwFV98rfKXq2KBphJz |
| eerin | | 95rao7q 8PpwT&index=5 |
| g | | https://www.youtube.com/watch?v=VQRcChR9IkU&list=PLOSWwFV98rfKXq2KBp |
| | | hJz95r ao7q8PpwT&index=18 |
| | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics

Pedagogy & e-Resources

| | | | https://www.voutubo.com/watah?w=2VDVtoI |
|----------|--------|---------------------|---|
| | | | https://www.youtube.com/watch?v=3YBXteL- |
| | | | qY4https://www.youtube.com/watch?v=z95UW4wwzSc&list=PLOSWwFV98rfKX |
| | | | q2KBphJz95r ao7q8PpwT&index=10 |
| | | | https://www.youtube.com/watch?v=lheoBL2QaqU&list=PLOSWwFV98rfKXq2KBp |
| | | | hJz95rao 7q8PpwT&index=7 |
| | | | https://www.youtube.com/watch?v=atoP5_DeTPE |
| | | | https://www.youtube.com/watch?v=ksmsp9OzAsI |
| | | | https://www.youtube.com/watch?v=x1ef048b3CE |
| | | | https://www.youtube.com/watch?v=l_Nck-X49qc |
| | | | https://play.google.com/store/apps/details?id=appinventor.ai_jgarc322.Resu |
| | | | ltant_Force |
| | | | https://www.youtube.com/watch?v=RIBeeW1DSZg |
| | | | https://www.youtube.com/watch?v=R8wKV0UQtlo |
| | | | https://www.youtube.com/watch?v=0RZHHgL8m_A |
| | | | https://www.youtube.com/watch?v=Bls5KnQOWkY |
| | | | Activity-Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | Learning: |
| | | | https://www.youtube.com/watch?v=Zrc_gB1YYS0 |
| | | | https://play.google.com/store/apps/details?id=vn.edu.best4u.com.bieudonoil |
| | | | |
| | | | uc https://www.waytuba.com/watab?w.Hu.io.HucOm/ |
| | | | https://www.youtube.com/watch?v=Hn_iozUo9m4 |
| | | | https://play.google.com/store/apps/details?id=com.teobou |
| | _ | | https://www.youtube.com/watch?v=WOHRp3V-QA0 |
| | Intro | https://vtu.ac.in/p | https://rakhoh.com/en/applications-and-advantages-of-steam-in- |
| | ducti | df/2022syll/BES | manufacturing- and process-industry/ |
| | on To | CK104D.pdf | |
| | Mech | | Videos Makino (For Machine Tool Operation) Activity Based Learning |
| | anical | | (Suggested Activities in Class)/ Practical Based learning: |
| | Engin | | |
| | eerin | | Demonstration of lathe/milling/drilling operations |
| | g | | Demonstration of working of IC Engine. Study arc welding, oxy- |
| | | | acetylene gas flame structure. |
| | | | Video demonstration of latest trends in mobility robotics and |
| | | | Automation |
| | | | Demonstration of developing models on machine tools |
| \vdash | Smart | https://vtu.ac.in/p | YouTube Videos. Activity Based Learning (Suggested Activities in Class)/ |
| | Mater | df/2022syll/BET | Practical Based Learning: |
| | | | Tractical Dascu Learning. |
| | ials | CK105A.pdf | |
| | and | | Site visits to understand the prefabricated building components. |
| | syste | | Visit to Smart material manufacturing facilities |
| | ms | | Visit to 3-D printing facility |
| | Gree | https://vtu.ac.in/p | Web links and Video Lectures (e-Resources): |
| | n | df/2022syll/BET | https://www.youtube.com/watch?v=THgQF8zHBW8 |
| | Build | CK105B.pdf | https://www.youtube.com/watch?v=DRO_rIkywxQ |
| | ings | - - | - |
| | | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | learning |
| | | | Students have to visit a building which is green rated and prepare a report |
| ш | | | seasons have to the a contains which is green faced and propare a report |

100 00 mm

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics Pedagogy &

e-Resources AY:2022-23

| Intro | https://vtu.ac.in/p | https://nptel.ac.in/courses/118104008https://www.digimat.in/nptel/courses/v |
|----------------|--|--|
| ducti | df/2022syll/BET | ideo/118104008/L16.html |
| on to | CK105C.pdf | https://archive.nptel.ac.in/courses/113/106/113106099/ |
| Nano | | https://nptel.ac.in/courses/112107283 |
| Tech | | https://onlinecourses.nptel.ac.in/noc22_me131/preview |
| nolog | | |
| y | | Practical Based Learning (Any 5 experiments x 2 hours = 10 practical |
| | | hours): |
| | | |
| | | Preparation of silver nanoparticles and characterization of particle size |
| | | by optical spectroscopy |
| | | Preparation of ZnO nanoparticles by combustion technique Preparation |
| | | of Al2O3 nanoparticles by precipitation method Preparation of Silica |
| | | nanoparticles by sol-gel method Preparation of metal oxide |
| | | nanoparticles by hydrothermal method |
| | | Determination of thermal conductivity of nanofluids using a thermal |
| | | analyser |
| | | Preparation of thin films by SILAR method Determination of Band gap of a inequality and the state of th |
| Tutus | 1. ttm o. //retra o.o. im/m | of given material using Tauc plot VTU/EDUSAT/SWAYAM/NPTEL/MOOC. |
| Intro ducti | https://vtu.ac.in/p df/2022syll/BET | https://nptel.ac.in/courses/127105018 |
| on to | CK105D.pdf | https://nptel.ac.in/courses/127103018 https://https://nptel.ac.in/courses/107103081/www.macfound.org |
| Susta | CK105D.pui | https://unesdoc.unesco.org/ |
| inabl | | https://unesdoc.unesco.org/ark:/48223/pf0000375644.locale=en |
| e | | https://engineeringforoneplanet.org/ |
| Engin | | integration of the state of the |
| eerin | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| g | | Learning: |
| C | | |
| | | Group Discussion of case studies. Solutions to real time case studies |
| | | Seminar/Poster Presentation |
| Rene | https://vtu.ac.in/p | E-book: URL: https://www.pdfdrive.com/non-conventional-energy-sources- |
| wable | df/2022syll/BET | <u>e10086374.html</u> |
| Energ | CK105E.pdf | E-book: <u>URL:https://www.pdfdrive.com/non-conventional-energy-systems-</u> |
| y | | <u>nptel-d17376903.html</u> |
| Sourc | | E-book: https://www.pdfdrive.com/renewable-energy-sources-and-their- |
| es | | applications- e33423592.html |
| | | E-book: https://www.pdfdrive.com/lecture-notes-on-renewable-energy- |
| | | sources-e34339149.html |
| | | https://onlinecourses.nptel.ac.in/noc18_ge09/preview |
| | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | Learning: |
| | | Poster presentation on the theme of renewable energy sources |
| | | Industry Visit |
| Emer | https://vtu.ac.in/p | https://www.youtube.com/watch?v=kQ6CY1qpGjY |
| ging | df/2022syll/BET | https://nptel.ac.in/courses/102101054 |
| Appli | CK105G.pdf | https://onlinecourses.nptel.ac.in/noc20_ph13/preview |
| · | <u> </u> | The state of the s |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Recognized under2(f) &12B of UGC Act, 1956
Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC
Academics
Pedagogy &
e-Resources

| E | 1 | | https://onlinecourses.nptel.ac.in/noc22_ph01/preview |
|--|---|---|---|
| | ns Of | | |
| n | Biose | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | nsors | | Learning: |
| | | | AV presentation by students (on specific topics). |
| | | | Discussion of case studies based on research findings. |
| <u> </u> | _ | | Model making and Poster presentations |
| | | https://vtu.ac.in/p | https://nptel.ac.in/noc/courses/noc19/SEM1/noc19-cs31/ |
| | | df/2022syll/BET | A stivity Donal Learning (Cyconoted Activities in Class) / Drestical Donal |
| | on to Intern | CK105H.pdf | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | et of | | Learning: Demonstrate a conser based application |
| | Thing | | Demonstrate a sensor based application |
| S | _ | | |
| | (TOI) | | |
| | , , | https://vtu.ac.in/p | https://www.youtube.com/watch?v=yC_hFm0BX28&list=PLxApjaSnQGi6 |
| | | df/2022syll/BET | Jm7LLSxvmNQjS_rt9swsu |
| 0 | on to | CK1051.pdf | https://www.youtube.com/watch?v=nzZkKoREEGo&list=PL9ooVrP1hQO |
| | Cybe | | GPQVeapGsJCktzIO4DtI4_ |
| r | | | https://www.youtube.com/watch?v=6wi5DI6du- |
| | Secur | | 4&list=PL uaeekrhGzJlB8XQBxU3z hDwT95xlk |
| it | ity | | https://www.youtube.com/watch?v=KqSqyKwVuA8 16-2-2023 |
| | | | A stivity Donal Learning (Sycapoted Astivities in Class) / Drestical Donal |
| | | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | | | Learning:Illustration of standard case study of cyber crime |
| | | | Setup a cyber court at Institute level |
| T. | Intro | https://vtu.ac.in/p | NPTL Lectures: |
| | | df/2022syll/22ET | |
| d | ancri I | | https://nptel.ac.in/courses/108102045 |
| | | | https://nptel.ac.in/courses/108102045 Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary |
| О | | <u>C15J.pdf</u> | https://nptel.ac.in/courses/108102045 Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary |
| o E | on To | | |
| o E d | on To Embe | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary |
| o E d S | on To Embe dded | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| o E d S | on To Embe dded Syste | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: |
| o E d S | on To Embe dded Syste | | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc |
| o E d S n | on To Embe dded Syste ms | C15J.pdf https://vtu.ac.in/p | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED |
| o E d S n | on To Embe dded Syste ms Intro ducti | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview |
| o E d S n | on To Embe dded Syste ms Intro ducti on to | C15J.pdf https://vtu.ac.in/p | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| o E d S n | on To Embe dded Syste ms Intro ducti on to Web | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: |
| o E d S n I i d o V P | on To Embe dded Syste ms Intro ducti on to Web Progr | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: Develop simple GUI interfaces for a computer program to interact with |
| In do o v P a | on To Embe dded Syste ms Intro ducti on to Web Progr ammi | C15J.pdf https://vtu.ac.in/p df/2022syll/BPL | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: To design a simple Embedded System like simple remote To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: |
| In do o v P a n | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng | https://vtu.ac.in/pdf/2022syll/BPLCK105A.pdf | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users |
| In do V P a n In I | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng Intro | https://vtu.ac.in/p df/2022syll/BPL CK105A.pdf | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users https://www.learnbyexample.org/python/ |
| In de la contraction de la con | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng Intro ducti | https://vtu.ac.in/pdf/2022syll/BPLCK105A.pdf https://vtu.ac.in/pdf/2022syll/BPLCK105A.pdf | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users https://www.learnbyexample.org/python/ https://www.learnpython.org/ |
| In do o v P a a n do o | on To Embe dded Syste ms Intro ducti on to Web Progr ammi ng Intro ducti | https://vtu.ac.in/p df/2022syll/BPL CK105A.pdf | Embedded Systems, IIT Delhi, Prof. Santanu Chaudhary Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • To design a simple Embedded System like simple remote • To demonstrate simple microcontroller-based experiments like LED interfacing, LCD interfacing, DAC etc https://onlinecourses.swayam2.ac.in/aic20_sp11/preview Activity Based Learning (Suggested Activities in Class)/ Practical Based Learning: • Develop simple GUI interfaces for a computer program to interact with users https://www.learnbyexample.org/python/ |
| 1 | | 711/ /11/ / / CX711/ / / H | 1 https://mptsl.co.im/sorrass/100102045 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy &
e-Resources

| Progr | | Learning: |
|-------|---------------------|--|
| ammi | | • Quizzes for list, tuple, string dictionary slicing operations using below |
| ng | | link |
| | | |
| | | https://github.com/sushantkhara/Data-Structures-And- |
| | | AlgorithmswithPython/raw/main/Python%203%20 %20400%20exercises%20and |
| | | %20solutions%20for%20beginn ers.pdf |
| Basic | https://vtu.ac.in/p | https://onlinecourses.nptel.ac.in/noc22_cs47/preview |
| s of | df/2022syll/BPL | |
| Java | CK105C.pdf | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| Progr | | Learning: |
| ammi | | Conduct on spot problem solving based on JAVA |
| ng | | • Develop simple GUI interfaces for a computer program to interact with |
| | | users |
| III | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| and | df/2022 3to8/2cs | http://www.class-central.com/subject/math(MOOCs) |
| IV | essyll.pdf | http://academicearth.org/ |
| Seme | | http://www.bookstreet.in. |
| sters | | |
| Com | | VTU EDUSAT PROGRAMME–20 and VTU e-Shikshana Program |
| puter | | Activity-Based Learning (Suggested Activities in Class)/Practical-Based |
| Scien | | Learning: |
| ce | | Programming Assignment |
| and | | • Seminars |
| Engin | | |
| eerin | | Note: Above are sample e-resources and practicals mentioned in one |
| g | | subject and e-resources of remaining courses are available in the VTU |
| Cours | | mentioned and are practicing regularly |
| es | | |
| III | https://vtu.ac.in/p | 1.Strength of Materials web course by IIT Roorkee |
| and | df/2022 3to8/2ci | https://nptel.ac.in/courses/112107146/ |
| IV | <u>vsyll.pdf</u> | 2.Strength of Materials video course by IIT Kharagpur |
| Seme | | https://nptel.ac.in/courses/105105108/ |
| sters | | 3.Strength of Materials video course by IIT Roorkee |
| Civil | | https://nptel.ac.in/courses/112107147/18 |
| Engin | | 4.All contents organized http://www.nptelvideos.in/2012/11/strengthof- |
| eerin | | materials-prof.html |
| g | | |
| Cours | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| es | | Learning: |
| | | Quiz (To assist in GATE Preparations) |
| | | Demonstrations in Lab Virtual Lab Experiments |
| | | |
| | | Note: Above are sample e-resources and practicals mentioned in one |
| | | subject and e-resources of remaining courses are available in the VTU |
| | | mentioned and are practicing regularly |
| III | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| and | df/2022_3to8/2ec | http://www.class-central.com/subject/math(MOOCs) |
| IV | esyll.pdf | http://academicearth.org/ |
| | | soshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. |

100 00 mm

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Pedagogy &
e-Resources

| | Seme | | VTU e-Shikshana Program |
|----------|------------|---------------------|--|
| | sters | | • VTU EDUSAT Program. |
| | Electr | | VIO EDOSMI Hogiani. |
| | onics | | Activity-Based Learning (Suggested Activities in Class)/Practical-Based |
| | and | | Learning (Suggested Activities in Class)/11actical-based |
| | Com | | <u>=</u> |
| | | | • Quizzes |
| | muni | | • Assignments |
| | catio | | • Seminar |
| | n | | |
| | Engin | | Note: Above are sample e-resources and practicals mentioned in one |
| | eerin | | subject and e-resources of remaining courses are available in the VTU |
| | g | | mentioned and are practicing regularly |
| | Cours | | |
| | es | | |
| | III | https://vtu.ac.in/p | http://nptel.ac.in/courses.php?disciplineID=111 |
| | and | df/2022 3to8/2ee | http://www.class-central.com/subject/math(MOOCs) |
| | IV | syll.pdf | http://academicearth.org/ |
| | Seme | | |
| | sters | | VTU e-Shikshana Program |
| | Electr | | VTU EDUSAT Program. |
| | ical | | VIO EDOSAT Flogram. |
| | and | | Activity Deced Learning (Suggested Activities in Class) / Drestical Deced |
| | Electr | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | onics | | Learning Activity-Based Learning (Suggested Activities in Class)/Practical- |
| | | | Based Learning |
| | Engin | | • Quizzes |
| | eerin | | • Assignments |
| | g | | • Seminar |
| | Cours | | |
| | es | | Note: Above are sample e-resources and practicals mentioned in one |
| | | | subject and e-resources of remaining courses are available in the VTU |
| | | | mentioned and are practicing regularly |
| | III | https://vtu.ac.in/p | Statics and Strength of Materials, Shehata, 2nd edition, 1994. |
| | and | df/2022_3to8/2m | http://www.astm.org/DIGITAL_LIBRARY/JOURNALS/TESTEVAL/PAGES/JTE12637J. |
| | IV | ecsyll.pdf | htm |
| | Seme | | http://www.astm.org/DIGITAL_LIBRARY/JOURNALS/TESTEVAL/PAG |
| | sters | | E S/JTE12637J.htm |
| | Mech | | http://www.freeengineeringbooks.com/Civil/Strength-of-MaterialBooks.php |
| | anical | | |
| | Engin | | Activity Based Learning (Suggested Activities in Class)/ Practical Based |
| | eerin | | Learning |
| | | | • Use Mdsolids (https://web.mst.edu/mdsolids/) or any open source software |
| | g Cours | | for active teaching and learning. |
| | es | | 101 delive tederining directioning. |
| | Co | | Note: Above are sample e-resources and practicals mentioned in one subject |
| | | | and e-resources of remaining courses are available in the VTU mentioned |
| | | | |
| \vdash | Chart 1 | Mamany A 11 = | and are practicing regularly |
| | | Memory Alloys | https://www.slideshare.net/sureshdaravath/shape-memory-alloys- |
| | | 12:10 pm] | <u>71483726</u> |
| | .או.ס.וע | Topannavar: | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| [07/01, 12:29 pm] | https://padeepz.net/shape-memory-alloys/ |
|---|---|
| Dr.S.N.Topannavar: Martensite | https://www.youtube.com/watch?v=r-o-neQiT24 |
| transformation animation | interpolity water |
| Properties of NiTi Alloys | https://youtu.be/EKimWj8c-MQ?si=xt2IV2XroB-TGDCU |
| [14/01, 12:41 pm] Dr.S.N.Topannavar: | https://youtu.be/60G1KCe31DA?si=-fH9w8qqdcF6tA4i |
| [14/01, 1:12 pm] | nttps://youtu.be/00011KGe51DA:SI=-II 19W0qquci 0tA4I |
| Dr.S.N.Topannavar: | |
| Shape Memory Alloys | https://youtu.be/7PKJ1TSCQWk?si=94xqFo17R6Gd6dpk |
| [14/01, 12:58 pm] Dr.S.N.Topannavar: [14/01, 1:05 pm] | https://youtu.be/M4lDuktUael?si=31_nLc_qlrO4Brwt |
| Dr.S.N.Topannavar: [14/01, 1:10 pm] | https://youtu.be/yR-6_IS9vts?si=NytO45sqMLpHUPGh |
| Dr.S.N.Topannavar: 14/01, 2:52 pm] | https://youtu.be/I7doX1zWGdw?si=Cc3GafcswLn-HvxE |
| Dr.S.N.Topannavar: Applications of Shape | https://youtu.be/5hYOxFFjZ-8?si=Vw4bGVDbBb6HKR46 |
| Memory Alloys [14/01, 2:37 pm] | https://youtu.be/I7doX1zWGdw?si=eese-szhufVq6pU6 |
| Dr.S.N.Topannavar: [14/01, 2:40 pm] | |
| Dr.S.N.Topannavar: | |
| Piezoelectric Materials and Applications [14/01, | https://youtu.be/_XABS0dR15o?si=w_lp1UghKxbuqPF5 |
| 3:14 pm] | https://youtu.be/4nbBAG-848c?si=GPQBzxnSeCjOYNhI |
| Dr.S.N.Topannavar [14/01, 3:21 pm] Dr.S.N.Topannavar | https://youtu.be/pnvpsl3bzwQ?si=7LT4KBfRU_1Y04II |
| [14/01, 3:25 pm] Dr.S.N.Topannavar: | https://youtu.be/INaPVsVZkR8?si=5L7Axd4M7UMZSIDW |
| [14/01, 3:31 pm] Dr.S.N.Topannavar: | https://youtu.be/ULbNZuZuIPg?si=BKmQ69mMmVV_J2fi |
| [14/01, 3:33 pm] Dr.S.N.Topannavar: | https://youtu.be/p-rPep0-3cE?si=yC-m6ocf7OkFMI3p |
| [14/01, 3:34 pm] Dr.S.N.Topannavar: | |
| Self Healing Materials | https://youtu.be/xDp3PU8azmY?si=HDAEMX9awZIzcpMr |
| [30/01, 7:22 am] | |
| Dr.S.N.Topannavar: Electrical Self Healing | https://youtu.be/N_ijvkl51LM?si=4M0VGpAwO1X6_aMb |
| Materials | |
| [30/01, 7:21 am] | |
| Dr.S.N.Topannavar Self Healing Polymers | https://youtu.be/XnJbH9re2rl?si=fMa7FPwTGcmjecxx |
| [30/01, 7:21 am] | |
| Dr.S.N.Topannavar Targeted Drug Delivery | https://youtu.be/2k2BLFFQssg?si=ydD6e0s6PkXiWBl9 |
| System (TDDS) | TITLE S.// YOUTU. DO / ZINZ DET T GOOG! SI- YUDUGUSU! KATIV DIS |
| · | |

De de la constante de la const

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| [30/01, 7:16 am] | |
|--------------------------|--|
| Dr.S.N.Topannavar: | |
| Smart Drug Delivery | https://youtu.be/AqWzqhDaoz0?si=ws0q9YWpIRmF4Txg |
| System | |
| [30/01, 7:14 am] | |
| Dr.S.N.Topannavar: | |
| Bimorph MFC Actuator | https://www.youtube.com/watch?v=w79wTb2zOQQ |
| Bimorph Piezoelectric | https://www.youtube.com/watch?v=-XAIQQUcQk0 |
| Cantilever Mode Shapes | |
| Synthesis of Carbon | https://www.youtube.com/watch?v=FQ5Fe5I8vYU |
| Nanotubes (CNTs) by | |
| CVD Method | |
| Azobenzene : Organic | https://www.youtube.com/watch?v=novE6nQrBmU |
| Synthesis | nttps://www.youtuoc.com/waten:v=novEonQiBino |
| Azobenzene and | https://www.youtube.com/watch?v=HiI22ttaBf0 |
| | mttps.//www.youtube.com/watch/v=m122ttabio |
| Polyimide Film Shape | |
| Changing Polymer | hung//gaman and the control of the VC E CV |
| A crystal of azobenzene | https://www.youtube.com/watch?v=YGqEgrcnfXc |
| showing different | |
| patterns of flipping | |
| motion | |
| Smart coatings for | https://www.youtube.com/watch?v=6PJuJ1-fp7c |
| corrosion protection | |
| Scratching the Surface: | https://youtu.be/T0w_r8hrt5Q?si=CA-kfloLc4CyKiSz |
| Self Healing and Smart | |
| Coatings [30/01, 7:20 | |
| am] Dr.S.N.Topannavar | |
| | |
| New asphalt repairs its | https://youtu.be/C2CYClNVkCs?si=43Puhf-ifBMLKY7G |
| own cracks | |
| [30/01, 7:19 am] | |
| Dr.S.N.Topannavar: | |
| Self Healing Polymers by | https://youtu.be/fVTfSHEPnr8?si=uH6hdCcQRxt2cR2T |
| CIDETEC | |
| [30/01, 7:18 am] | |
| Dr.S.N.Topannavar: | |
| Nano particles for | https://youtu.be/xElVrV9zxRY?si=OczXLNpdu-Rof3bZ |
| Targeted Drug Delivery | |
| System | |
| [30/01, 7:17 am] | |
| Dr.S.N.Topannavar: | |
| Biomaterials in Drug | https://youtu.be/tx6IVsErnj8?si=ITeg26itxUnTBnx_ |
| Delivery System | |
| [30/01, 7:15 am] | |
| Dr.S.N.Topannavar: | |
| Piezo Disk Actuator, | https://www.youtube.com/watch?v=mAAT5fvbl4Y |
| Bimorph Disk Actuator | 1 |
| Long Travel, Molecualr | |
| Valve by www.pi.ws | |
| Thermal Bimorph | https://www.youtube.com/watch?w=NevoLHI1eLTa |
| | https://www.youtube.com/watch?v=NpxoUU1rLTs |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| $\overline{}$ | II | 1 // 10. GTG1100 DI |
|-----------------|---|--|
| | How Carbon Nanotubes | https://www.youtube.com/watch?v=SIif11QOsRI |
| | Will Change the World | |
| | pH Responsive Lipids- | https://www.youtube.com/watch?v=UpjLULz9Aq8 |
| | Use in Smart Drug | |
| | Delivery Systems | |
| | Smart Polymers: The | https://www.youtube.com/watch?v=6hVJvXL3tMs |
| | Game-Changing, | |
| | Responsive, Resilient, | |
| | and Revolutionary | |
| | Polymer Developments | |
| | Smart Materials of the | https://www.voutubo.com/wotab?w_4_wwDaI.Mala |
| | | https://www.youtube.com/watch?v=4rwDgLMpk |
| | Future - with Anna | |
| | Ploszajski | |
| | Research Spotlight: | https://www.youtube.com/watch?v=NTZDy8jkw68 |
| | Julianna Abel - | |
| | developing 'smart' fabrics | |
| | for medical and space | |
| | applications | |
| | Electronics in Space | https://www.youtube.com/watch?v=c4UtMI_xEQY |
| | Applications | The point with the point of the |
| | Self-Healing Coatings to | https://www.youtube.com/watch?v=66mpHrlk_Fk |
| | Prevent Corrosion | https://www.youtube.com/watch:v=oomprink_rk |
| | | |
| | Damage | The state of the s |
| | SMART COATINGS | https://www.youtube.com/watch?v=yD1Bt-jIwHw |
| | FOR CORROSION | |
| | PROTECTION DR S K | |
| | DHAWAN | |
| | How to Make PowerPoint | https://youtu.be/pdjiue2YbgY?si=YeBEV1pKstV-4pQL |
| | PPT in Mobile ppt in | |
| | mobile phone Power- | |
| | point in mobile | |
| | · | |
| | • | |
| \vdash | How to small on Store | https://youtube.com/shorts/V0tPkayEkKs?si=HYEf0zC-JM10mK9t |
| | How to speak on Stage | https://youtube.com/shorts/votPkayEkks?sl=H1EloZC-JivI10mk9t |
| $\vdash \vdash$ | II | https://www.ha/ODt/OH-IDMHID-I DEW WOTEO OF |
| | How to start | https://youtu.be/QPt_CHcjDMU?si=zuvR5WnzKCTxQvG5 |
| | presentations? | |
| | Presentation Skills Five | |
| | Tips For Presentation by | |
| | Jaswant Sir | |
| | | |
| | How to make great | https://youtu.be/yPhUz6xjhGY?si=_hme-IRdI3L03XL- |
| | presentations 10 | |
| | powerful presentation tips | |
| | powerful presentation tips | |
| $\vdash \vdash$ | A Docino Eon Colf | https://youtu.bo/IZbOLIDaVdoA2si-r/4r/4cZIMOVbDbm;C |
| | A Recipe For Self- | https://youtu.be/JZbQURpXdaA?si=r4r4qZlM9YbPbmjF |
| | healing Concrete! - Science Snapshot | |
| | Nicasana a Nicasana la a 4 | 1 |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| SMART COATINGS FOR CORROSION PROTECTION DR S K DHAWAN | https://youtu.be/yD1Bt-jIwHw?si=L5WLFGyKixCtezcw |
|--|--|
| A Recipe For Self- healing Concrete! - Science Snapshot | https://youtu.be/JZbQURpXdaA?si=r4r4qZlM9YbPbmjF |
| Scratching the Surface: Self-Healing and Smart Coatings Research at BP- ICAM | https://youtu.be/T0w_r8hrt5Q?si=Ev4abZFvuDbVwLBX |
| Corrosion in Reinforced Concrete | https://youtu.be/cX2FdjV4eOY?feature=shared |
| Graphene anti-corrosion coating - Enerage Inc. | https://youtu.be/h6VFemlHXTU?si=7gzR6MHrsJ4ZBXMb |
| Liquid Crystals NSF Chalk Talk | https://youtu.be/nAJgchCI3kg?si=-ev34gRf1LFe4_Bi |
| This new material heals—not cracks—under pressure | https://youtu.be/VJCX0xgQFBE?si=N7a1spYPUiqg1Ci9 |
| Self-Healing Coatings to Prevent Corrosion Damage | https://youtu.be/66mpHrlk Fk?si=cgPOyRbZRRbSixR0 |
| Shape Memory Alloy Heat Engine | https://youtu.be/I78ZTkdZ0b0?feature=shared |
| Photoresponsive Liquid Crystalline Epoxy Networks with Shape Memory Behavior and Dynamic Ester | https://youtu.be/dldwbymd7eA?si=CFtTWbYPGvU9XmD4 |
| Azobenzene and Polyimide Film Shape Changing Polymer | https://youtu.be/HiI22ttaBf0?si=Bl-TElmdm81LeuFI |
| Hair Gel | https://youtube.com/shorts/0eirRrU312Y?si=bry6aPBVY5iyOxar |
| | https://youtu.be/Y6K7h9tbD_s?si=GTjcsrEwblb35E-S |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics
Pedagogy &
e-Resources
AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| Liquid Crystals Painted on Heat Pipes | |
|--|--|
| What are Liquid Crystals? | https://youtu.be/MuWDwVHVLio?si=xrSjouoB7Zu4m95V |
| New Gel Protects Eggs and May Lead to Better Sports Helmets Headline Science | https://youtu.be/yBMWBhpeiy8?si=57TdmzORewh7pwha |
| Self-Healing Material | https://youtu.be/DAUl6upA3q4?si=mQHDknLx3AIIiZcL |
| Smart Gel | https://youtu.be/W-YYtQkldgU?si=i1fhaN8H8Pa67SYO |
| What are Liquid Crystals : Definition ,Formation, Types , Uses & Properties of Liquid Crystals | https://youtu.be/JIZhHhpVRrI?si=HU-UCu71guAiA4ay |
| Colour changing Liquid Crystals | https://youtube.com/shorts/IFY-HufqZPU?si=Kxj1NyqMEBvixmzy |
| Liquid Crystals | https://youtube.com/shorts/R7kbdWBVQF0?si=aoINogRmKKtkjGgc |
| Learn to deliver PRESENTATIONS confidently in ENGLISH! | https://youtu.be/Q074YSGwRTM?si=6YnCRvt6xOGWK-2O |
| India on path to triple renewable energy capacity by 2030 but faces financing hurdle: Report 29/11, 2:57 pm] Dr.S.N.Topannavar: | https://www.moneycontrol.com/news/business/economy/india-on-path-to-triple-renewable-energy-capacity-by-2030-but-faces-financing-hurdle-report-11826361.html |
| India on path to triple renewable energy capacity by 2030 but faces financing hurdle: Report - [30/11, 4:32 pm] Dr.S.N.Topannavar | https://www.notebookcheck.net/Energy-start-up-designs-offshore-wind-turbine-to-double-power-generation.771828.0.html |
| 30/11, 4:39 pm] Dr.S.N.Topannavar: | [https://solarquarter.com/2023/11/28/solar-and-wind-power-constitute-over-88-of-total-renewable-installed-capacity-by-october-2023/ |
| [04/12, 6:10 am] Dr.S.N.Topannavar: | https://www.business-standard.com/economy/news/proposed-5-biogas-blending-with-lng-can-cut-imports-worth-1-17-bn-iba-123120300252_1.html |
| [10/12, 1:22 am] | https://solarquarter.com/2023/12/05/quarterly-analysis-of-solar-pv-installed- |

00000 000000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| Dr.S.N.Topannavar: | capacity-in-india-q1-2021-to-q3-2023/ |
|--|---|
| [10/12, 9:14 am] Dr.S.N.Topannavar: | https://www.financialexpress.com/business/sustainability-indias-potential-as-a-global-hydrogen-electrolyzer-manufacturing-hub-3334155/ |
| [10/12, 9:26 am] Dr.S.N.Topannavar: | https://www.moneycontrol.com/news/business/kundan-energy-to-develop-80-mw-hydropower-at-rs-1000-crore-investment-in-uttarakhand-11878161.html |
| [10/12, 9:27 am] Dr.S.N.Topannavar: | https://www.iamrenew.com/green-energy/revolutionizing-biogas- production-lehmann-umts-bioextrusion-process/ |
| [10/12, 9:29 am] Dr.S.N.Topannavar: | https://electrek.co/2023/12/08/us-first-large-scale-offshore-wind-farm-vineyard-wind-1/ |
| [10/12, 9:30 am] Dr.S.N.Topannavar: | https://www.businesstoday.in/impact-feature/story/forging-the-path-to-net-zero-how-to-drive-a-world-class-net-zero-transformation-408570-2023-12-07 |
| [10/12, 9:31 am] Dr.S.N.Topannavar: | https://solarquarter.com/2023/12/06/masdar-edf-renewables-and-nesma-renewable-energy-wins-a-contract-for-a-1-1-gw-solar-project-in-saudi-arabia/ |
| 15/12, 7:14 am] Dr.S.N.Topannavar | : https://www.businesstoday.in/visualstories/news/india-to-build-worlds-largest-solar-farm-equivalent-to-the-size-of-singapore-80799-08-12-2023 |
| [16/12, 7:53 am] Dr.S.N.Topannavar | : https://www.saurenergy.com/solar-energy-news/zetwerk-secures-375-mw-solar-module-deal-with-ntpc |
| [16/12, 7:54 am] Dr.S.N.Topannavar: | https://solarquarter.com/2023/12/13/sembcorp-secures-singapores-largest-solar-power-project/ |
| [16/12, 7:56 am] Dr.S.N.Topannavar: | https://www.moneycontrol.com/news/business/companies/india-gets-bids-for-green-hydrogen-electrolyser-incentives-11911761.html |
| [16/12, 7:57 am] Dr.S.N.Topannavar: | https://www.pv-magazine.com/2023/12/12/french-startup-offers-ai-algorythm-package-for-rooftop-pv-monitoring/ |
| [16/12, 7:58 am] Dr.S.N.Topannavar: | https://tradebrains.in/features/renewable-energy-stock-jumps-after-it-bags-100-8-mw-wind-power-project-in-gujarat/ |
| [16/12, 7:59 am] Dr.S.N.Topannavar: | https://www.financialexpress.com/web-stories/sme/10-solar-business-ideas- to-start-in-2024/ |
| [10/12, 9:36 am] Dr.S.N.Topannavar: | https://youtu.be/pdjiue2YbgY?si=YeBEV1pKstV-4pQL |
| [10/12, 9:45 am] Dr.S.N.Topannavar: | https://youtu.be/Q074YSGwRTM?si=6YnCRvt6xOGWK-2O |
| [10/12, 9:50 am] Dr.S.N.Topannavar: | https://youtube.com/shorts/V0tPkayEkKs?si=HYEf0zC-JM10mK9t |
| [10/12, 9:51 am] Dr.S.N.Topannavar: | https://youtu.be/QPt_CHcjDMU?si=zuvR5WnzKCTxQvG5 dasoshi-591 236. Tag: Hukkeri, Dist: Belagavi, Karnataka, India. |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| [10/12, 9:53 am] Dr.S.N.Topannavar: | https://youtu.be/yPhUz6xjhGY?si=_hme-IRdI3L03XL- | | |
|--|---|--|--|
| VTU Curriculum-book | https://www.pdfdrive.com/non-conventional-energy-sources- | | |
| URL: | <u>e10086374.html</u> | | |
| VTU Curriculum-book | https://www.pdfdrive.com/non-conventional-energy-systems-nptel- | | |
| URL: | <u>d17376903.html</u> | | |
| VTU Curriculum-book | https://www.pdfdrive.com/renewable-energy-sources-and-their- | | |
| URL: | applications- e33423592.html | | |
| VTU Curriculum-book | https://www.pdfdrive.com/lecture-notes-on-renewable-energy-sources- | | |
| URL: | <u>e34339149.html</u> | | |
| VTU Curriculum-book | https://onlinecourses.nptel.ac.in/noc18_ge09/preview | | |
| URL: | | | |
| Models and charts to realis | se atomic structures of different materials and phase transformations | | |
| Material Testing lab visit t | Material Testing lab visit to realise the strengths and properties of different materials | | |
| Models show the stimuli a | Models show the stimuli and responses of smart materials | | |
| Application oriented pedag | gogical teaching in the class | | |

| VTU Board of Studies (BoS) recommended e-Resources | | | | |
|---|--|--|--|--|
| (Web links, Video Lectures, MOOCs, e-Shikhsana Program, NPTEL, EDUSAT, YouTube, Vlab etc.), | | | | |
| (2018-19 to 2023-24) | | | | |
| | | | | |

| | (2010-17 to 2023-24) | | | | |
|------|--------------------------|--|---|--|--------|
| S.N. | Faculty Name | Course | VTU Syllabus link where e- resources are mentioned | e-Resource | Branch |
| 1 | Prof.S.S. Malaj | Basic Electronics | https://vtu.ac.in/pdf/2022syll/BBEE 203.pdf | https://nptel.ac.in/courses/1 22106025 | ECE |
| 2 | Prof.S.S. Malaj | Basic Electronics | https://vtu.ac.in/pdf/2022syll/BBEE 203.pdf | https://nptel.ac.in/courses/1 08105132 https://nptel.ac.in/courses/1 17104072 | ECE |
| 3 | Prof.S.S. Malaj | Introduction to Internet of Things | https://vtu.ac.in/pdf/2022syll/BETC K105H.pdf | https://nptel.ac.in/noc/cours es/noc19/sem1/noc19-cs31 | ECE |
| 4 | Prof. D. B. Madihalli | Introduction to Python Programming | BPLCK105B.pdf (vtu.ac.in) | Learn Python by Examples: https://www.learnbyexampl e.org/python/ https://www.learnpython.or g https://pythontutor.com/vis ualize.html#mode=edit | ECE |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics Pedagogy & e-Resources Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

AY:2022-23

IQAC

| 5 | Prof.S.S. | Basic | https://vtu.ac.in/pdf/2021syll/21eln | https://doi.org/10.4324/978 | ECE |
|-----|-------------|---------------------|---|--|-----|
| 2 | Malaj | Electronics | 24.pdf | 1315737980.BookISBN97813 | 202 |
| | | and | | 15737980 | |
| | | communicati | | | |
| | | on | | | |
| | | Engineering | | | |
| 6 | Dr.S.S. | Basic Signal | https://vtu.ac.in/pdf/2021syll/ecsch | https://www.youtube.com/ | ECE |
| | Ittannavar | Processing | <u>syll.pdf</u> | watch?v=KJnAy6hzetw&list= | |
| | | | | PL41692B571DD0AF9B | |
| | | | | https://www.youtube.com/ | |
| | | | | watch?v=ZK3O402wf1c&list= PL49CF3715CB9EF31D&inde | |
| | | | | x=1 | |
| 7 | Dr.S.S. | Digital | https://vtu.ac.in/pdf/2021syll/ecsch | https://nptel.ac.in/courses/1 | ECE |
| , | Ittannavar | Signal | syll.pdf | 17102060 | LCL |
| | Tttuima vai | Processing | sympa. | 1710200 | |
| 8 | Dr.S.S.I | Digital | https://vtu.ac.in/pdf/2021syll/ecsch | https://nptel.ac.in/courses/1 | ECE |
| | ttannavar | Communicati | syll.pdf | 08102096 | |
| | | on | | | |
| 9 | Dr.S.S. | Multimedia | https://vtu.ac.in/pdf/2018syll/ec.pd | https://www.youtube.com/ | ECE |
| | Ittannavar | Communicati | <u>f</u> | watch?v=rC16fhvXZOo | |
| | | on | | | |
| 10 | Dr.S.S. | MATLAB | https://vtu.ac.in/pdf/2022_3to8/2e | https://www.youtube.com/ | ECE |
| | Ittannavar | Programming | <u>cesyll.pdf</u> | watch?v=luEOMyGuulg | |
| 11 | Dr.S.S. | Digital | https://vtu.ac.in/pdf/2018syll/ec.pd | https://nptel.ac.in/courses/1 | ECE |
| | Ittannavar | Signal | <u>f</u> | <u>17102060</u> | |
| 12 | Dr.S.S. | Processing | https://utu.as.ip/pdf/2019sull/as.pd | https://pptol.go.in/courses/1 | ECE |
| 12 | Ittannavar | Digital Communicati | https://vtu.ac.in/pdf/2018syll/ec.pd f | https://nptel.ac.in/courses/1 08102096 | ECE |
| | Tuaimavai | on | 1 | 08102030 | |
| 13 | Prof. B. P | Digital Image | https://vtu.ac.in/pdf/2018syll/ec.pd | https://youtu.be/ArKe6zMkX | ECE |
| 10 | Khot | Processing | <u>f</u> | nk | LCL |
| | | | _ | https://youtu.be/nlwH07G9E | |
| | | | | <u>fg</u> | |
| | | | | https://youtu.be/MrNafUqh | |
| | | | | 860 | |
| 14 | Prof. B. P | Network | https://vtu.ac.in/pdf/2018syll/ec.pd | https://youtu.be/2YGUvopG | ECE |
| | Khot | Security | <u>f</u> | <u>kQc</u> | |
| 1.5 | D CD D | | https://www.cis/del/2010.ci/ | haterallian to be hard and | EGE |
| 15 | Prof. B. P | Computer | https://vtu.ac.in/pdf/2018syll/ec.pd | https://youtu.be/Wfau1WC5 | ECE |
| | Khot | Organization and | <u>f</u> | m4c https://youtu.be/Q7YdIhbRe | |
| | | Architecture | | a0 | |
| | | Aichitecture | | https://youtu.be/s4cVdsK3Xi | |
| | | | | Q | |
| 16 | Prof.S.S. | Circuits and | https://vtu.ac.in//pdf/2021syll/ecsc | https://nptel.ac.in/courses/ | ECE |
| | Malaj | controls | hsyll.pdf | 108106098 | |
| | 1 | 1 | 1 | | |
| | | | | https://nptel.ac.in/courses/ | |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

AY:2022-23

| 17 | Prof. S. S. Kamate | S&S | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=0nZYen9w_eo&l ist=PLyqSpQzTE6M8KJ- XQ1m2vl3nd2ZUqKEN8 https://www.youtube.com/ watch?v=_vyke3vF4Nk https://www.youtube.com/ watch?v=lkAvgVUvYvY | ECE |
|----|-----------------------|-------------------------|---|---|-----|
| 18 | Prof. S. S. Kamate | M&A | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/watch?v=wx tIvaajAI&list=PLzJaFd3A7DZsL9dZDCeA3ijHZwwBb6R8yhttps://www.youtube.com/watch?v=wKL6WsEOl00&list=PLGnJGN4tr1dY3UivHBTJBQAcvlQ1FYEbG | ECE |
| 19 | Prof. S. S. Kamate | Engg. Electromagn etics | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=G5P6dInMTFg& list=PLuv3GM6-gsE3- hVNaw- YEb7EeY5XVPZdz https://www.youtube.com/ watch?v=pGdr9WLto4A& list=PL1CE5B4FFFA997E 5D | ECE |
| 20 | Prof. S. S. Kamate | VLSI Design | https://vtu.ac.in/wp- content/uploads/2019/12/Electron ics-Communication-sch-and- syla.pdf | https://www.youtube.com/ watch?v=lRpt1fCHd8Y&li st=PLU8VFS- HdvKtKswbcvvA8yVhzle TV7OE8 https://www.youtube.com/ watch?v=M2x lSYxvXk https://www.youtube.com/ watch?v=faiEVOOCe-s | ECE |

List of Self-prepared Pedagogical Initiatives and Innovative Teaching aids used by the teachers to promoteexperiential learning among the students

| S.N. | Self-prepared Pedagogical initiatives and Innovative teaching aids | Course/Topic | Dept |
|------|---|---------------------------------------|----------------|
| 1. | Concept realization through learning models/charts in the class room. | EME: IC engine models, Gears, Milling | Mech. Engg. |
| 2. | Concept realization through | EME: Turbines & Pumps in the Fluid | Mech. |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy &
e-Resources

| Accredited at 'A' Grade by NAAC | AY:2022-23 | |
|---------------------------------|---|-------|
| | | |
| equipment demonstration in the | Machinery Lab, Lathe, Drilling, Milling | Engg. |
| respective laboratories. | Machines in the Machine Shop and Welding in | |

| | equipment demonstration in the | Machinery Lab, Lathe, Drilling, Milling | Engg. |
|-----|---|---|--------|
| | respective laboratories. | Machines in the Machine Shop and Welding in | |
| | | the Workshop | |
| 3. | Inspiring students to arrive basic | Thermodynamics Laws and Properties, | Mech. |
| | definitions/laws by giving | Refrigerating Effect, Ton of Refrigeration, IC | Engg. |
| | examples/case studies/current | engine efficiencies and powers, | |
| | affairs/routine activities/events etc. | Definitions/functions of Turbines and Pumps, | |
| | indirectly | Speed Ratios of Gear Trains/Belt Drives | |
| 4. | Motivating students to comprehensive | Numerical solving on Thermodynamic | Mech. |
| | understanding of the numerical | Concepts, Steam Formation, Gear Trains, Belt | Engg. |
| | problem statements (basic & Logic) | Drives, IC engines | |
| | before solving. | , , | |
| 5. | Teaching students how to read and | T-h diagram of steam formation, PV diagram | Mech. |
| | understand formulae, graphs and | of Thermodynamics/IC engines, Steam Tables, | Engg. |
| | tables?, and predicting, analyzing and | energy conversion equations | |
| | reasoning on technical parameters. | chargy conversion equations | |
| 6. | Teaching derivations and their | Equations of I and II law of thermodynamics, | Mech. |
| • | derivatives (final & intermediate) | entropy, IC engine efficiencies/powers, | Engg. |
| | through units and their different | enthalpy of steam, Specific heats, latent heats | 55. |
| | forms. | Similar of Scenari, Special news, mean news | |
| 7. | Realizing and feeling the scale of the | Showing the height of the boiler w.r.t man avg. | Mech. |
| , • | equipment, quantity, process etc. | height, Feeling of 1 bar pressure/1 N | Engg. |
| | through sketches, actions, demos etc. | force/Temperature, 1 Joule energy | 255. |
| 8. | After teaching, ensuring the students' | Classifications of | Mech. |
| 0. | learning by motivating students to list | Steams/turbines/pumps/engines/boilers, | Engg. |
| | the comparisons, differentiations, | Comparisons between Energy sources, | Eligg. |
| | classification, similarities with | similarity between heat and work. | |
| | reasons in the class rooms. | Similarity between heat and work. | |
| 9. | Promoting Cooperative/Informal | Elements of Mechanical Engineering | Mech. |
| 7. | learning through interactions outside | Elements of Weenamen Engineering | Engg. |
| | the class room between slow learners | | Lligg. |
| | and bright student/s. | | |
| 10. | Discussion on the end | Elements of Mechanical Engineering | Mech. |
| 10. | results/solutions of the complex | Elements of Weenamear Engineering | Engg. |
| | problems | | Eligg. |
| 11. | 1 | Functions renewable energy conversion | Mech. |
| 11. | class rooms | systems/boilers/turbines/pumps/gears/welding/l | |
| | Class rooms | athes | Engg. |
| 12 | Industry Visits | Elements of Mechanical Engineering | Mech. |
| 12. | industry visits | Elements of Mechanical Engineering | |
| 12 | Application enjoyeed tooching and | Fone and their blade design for angusy | Engg. |
| 13. | | Fans and their blade design for energy | Mech. |
| | creating curiosity to learn and | conversion/thermodynamics concepts, | Engg. |
| 1 4 | understand the concepts. | Density/specific volume, heat transfer | N / 1 |
| 14. | | Elements of Mechanical Engineering | Mech. |
| | asking questions, creating curiosity, | | Engg. |
| | connecting routine | | |
| | applications/practices etc. | | |
| 15. | Flapped Teaching and Learning | Elements of Mechanical Engineering | Mech. |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956

IQAC
Academics
Pedagogy & e-Resources

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

AY:2022-23

| | process | | Engg. |
|-----|--|--|-------------|
| 16. | Spot quantifying of learning and | Elements of Mechanical Engineering | Mech. |
| | motivating students to express the | | Engg. |
| | feedback about teaching and learning | | |
| | process | | |
| 17. | Teaching by the students on his/her | Elements of Mechanical Engineering | Mech. |
| | chosen topic | | Engg. |
| 18. | Motivational teaching to draw | Strokes in IC engines, Refrigeration cycles, | Mech. |
| | meaningful and logical based sketches | Turbines, Pumps, Lathe and its machining | Engg. |
| | including graphics. | operations | |
| 19. | Inspiring students to read reputed | Elements of Mechanical Engineering | Mech. |
| | reference books and to make their | | Engg. |
| | own notes. | | |
| 20. | Motivational teaching to create own | Elements of Mechanical Engineering | Mech. |
| | sketches to understand the critical | | Engg. |
| | concepts and express them in the | | |
| 21 | exams to strengthen the answers | | 3.6.1 |
| 21. | Facilitating self-Video Lectures for Slow learners and absentees | Elements of Mechanical Engineering | Mech. |
| 22 | | Wind Engagy | Engg. Mech. |
| 22. | https://www.youtube.com/watch?v=q SWm_nprfqE | Wind Energy | |
| | https://www.youtube.com/watch?v=x | | Engg. |
| | y9nj94xvKA | | |
| 23. | https://www.youtube.com/watch?v=x | Solar Energy Conversion | Mech. |
| 23. | Kxrkht7CpY | Sold Energy Conversion | Engg. |
| | https://www.youtube.com/watch?v=8 | | 88 |
| | nJXN6kwyqA | | |
| | https://www.youtube.com/watch?v=x | | |
| | Kxrkht7CpY | | |
| | <pre>https://www.youtube.com/watch?v=Z</pre> | | |
| | AJeDVLO1_w | | |
| | https://www.youtube.com/watch?v=lr | | |
| | RTCbXE0Jc | | |
| 24. | https://www.youtube.com/watch?v=Id | Thermal Power Plant | Mech. |
| | PTuwKEfmA | D: 6 1/ | Engg. |
| 25. | https://www.youtube.com/watch?v=tP | Bio fuel/gas production | Mech. |
| | HyYM7UqSo | | Engg. |
| | https://www.youtube.com/watch?v=c 1adiK8nLbA | | |
| | https://www.youtube.com/watch?v=O | | |
| | Jw6WFkTPZo | | |
| 26. | https://www.youtube.com/watch?v=2 | Nuclear Energy Production | Mech. |
| 20. | W-GEE6YU4M | Tracted Energy Froduction | Engg. |
| | https://www.youtube.com/watch?v=m | | 255. |
| | BdVK4cqiFs | | |
| | https://www.youtube.com/watch?v=xr | | |
| | k7Mt2fx6Y | | |
| | K/IVItZIXU I | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| Academics | |
|-------------|--|
| Pedagogy & | |
| e-Resources | |
| AY:2022-23 | |

| UwexvaCMWA | A | | |
|--|----------------------|--|-------|
| https://www.yo | outube.com/watch?v=A | | |
| MXxXoHtM-o | | | |
| 27. https://www.yo | outube.com/watch?v=q | Hydroelectric power plant | Mech. |
| 8HmRLCgDAI | - | J | Engg. |
| | outube.com/watch?v=U | | 86 |
| hjhufhg3Xk | | | |
| | outube.com/watch?v=h | | |
| C8NEiwrLTg | | | |
| 28. Basics of Therr | modynamics: | Basics of Thermodynamics | Mech. |
| | • | • Steam Formation-Properties | Engg. |
| | u.be/ouEjwbRraNo | Steam Formation Froperties | 86 |
| ' - | u.be/z1nE-23ZglQ | | |
| | u.be/_krp-ATP30s | | |
| | u.be/3Sxj9OG31PU | | |
| Steam Formation | • | | |
| | u.be/uFlocTrVEOg | | |
| / | u.be/jmjOITS4a94 | | |
| | u.be/ahuXCZ91ats | | |
| 29. Boilers: | · | Boilers | Mech. |
| 1) https://yout | u.be/PRtvB00d5V0 | Turbines | Engg. |
| 2) https://yout | u.be/AWSJVmg1w58 | Hydraulic Pumps | |
| 3) https://yout | u.be/28S0rS5ScgI | | |
| 4) https://youtu | u.be/XuV5MusoAgc | | |
| Turbines: | • | | |
| 1) https://yout | u.be/cESnwE2hgxA | | |
| 2) https://yout | u.be/3_5VEuA_ctw | | |
| 3) https://yout. | u.be/d3-BqXwbQcY | | |
| 4) <a href="https://youtrage.com/https://youtrage.c</th><th>u.be/UB0DyOaDwxU</th><th></th><th></th></tr><tr><th>5) <a href=" https:="" th="" y<="" youtreedings.com=""><th>u.be/H8x1rIdiHWc</th><th></th><th></th> | u.be/H8x1rIdiHWc | | |
| Hydraulic Pum | ps: | | |
| 1) https://yout | u.be/LFv4NGA2qtw | | |
| 2) https://yout | u.be/SX9rkMO2iKo | | |
| 3) <a href="https://youtreedings.com/https://y</th><th>u.be/6VRYJcZXotI</th><th></th><th></th></tr><tr><th>30. IC Engines:</th><th></th><th>• Internal Combustion (IC) Engines</th><th>Mech.</th></tr><tr><th>1) <a href=" https:="" th="" youtu<=""><th>u.be/ltp_gx4oc0U</th><th></th><th>Engg.</th> | u.be/ltp_gx4oc0U | | Engg. |
| 2) <a href="https://youtu</th><th>u.be/BrQJVA-Ne2E</th><th>• Refrigeration and Air Conditioning (AC)</th><th></th></tr><tr><th>3) <a href=" https:="" th="" youtu<=""><th>u.be/xyB8DnIw3Co</th><th></th><th></th> | u.be/xyB8DnIw3Co | | |
| | u.be/TStNvU5KORg | | |
| | u.be/1sKl7POCJ08 | | |
| | u.be/3DLJoMc708I | | |
| | u.be/ahqHOdLmtCc | | |
| / | u.be/wtHiUvTEoD8 | | |
| | u.be/3Fw5_aEfrbU | | |
| Refrigeration: | | | |
| , | u.be/y9gCc4jYkPY | | |
| , | u.be/zwNaU_6dMgY | | |
| | u.be/JEgjgSkhEIo | | |
| 4) https://yout | u.be/KQRb_25gR7M | : Hukkeri. Dist: Belagavi. Karnataka. India. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy &
e-Resources

AY:2022-23

| 5) 1 // // D COCIDI | T | 1 |
|--|---|-------|
| 5) https://youtu.be/kurwDfOSlBk | | |
| Air-Conditioning (AC): | | |
| 1) https://youtu.be/1BEKiLNNjRQ | | |
| 2) https://youtu.be/AJ508pSoci0 | | |
| 3) https://youtu.be/IIoouWdNU7k | | |
| 31. Engineering Materials: | Properties, Compositions and Industrial | Mech. |
| 1) https://youtu.be/3cZmDZepNAE | Applications of Engineering Materials | Engg. |
| 2) https://youtu.be/FproDJHrxeA | • Joining Processes | |
| Joining Processes: | • Belt Drives | |
| 1) https://youtu.be/Jpev1oGMEhg | • Gear Drives | |
| 2) https://youtu.be/9NXTKdX_qu4 | Gear Drives | |
| 3) https://youtu.be/Z0WOeVYg81c | | |
| 4) https://youtu.be/iXraH72qwcY | | |
| 5) https://youtu.be/5srRIznYEdY | | |
| 6) https://youtu.be/qAIqOSpBf Q | | |
| 7) https://youtu.be/GNLsxnjsIzs | | |
| 8) https://youtu.be/uRmgDTcNEQU | | |
| Belt Drives: | | |
| 1) https://youtu.be/L9iuKli2WZY | | |
| 2) https://youtu.be/SGOBo7tp8gY | | |
| 3) https://youtu.be/o_ZTtr2vlho | | |
| 4) https://youtu.be/13zz8qey_K0 | | |
| | | |
| 5) https://youtu.be/9u Fgi2G uw | | |
| 6) https://youtu.be/1 KxQzi3SCY | | |
| 7) https://youtu.be/KrfsP5VdGp8 | | |
| 8) https://youtu.be/Ba_0FDzFYH0 | | |
| Gear Drives: | | |
| 1) https://youtu.be/x0pA5boJh1M | | |
| 2) https://youtu.be/6ZIHS4_j6yQ | | |
| 3) https://youtu.be/jBacF4mkVAA | | |
| 32. Lathe Machine: | Lathe Machine | Mech. |
| 1) https://youtu.be/j8eKqrjaoFU | Milling Machine | Engg. |
| 2) https://youtu.be/4FoTMmlO60s | Introduction to Advanced | |
| 3) https://youtu.be/pngcpwmQABw | Manufacturing Systems | |
| 4) https://youtu.be/zcFtZVywZ-s | • Robots | |
| 5) https://youtu.be/RY7zAyPF1Lo | | |
| Milling Machine: | | |
| 1) https://youtu.be/RcfqhRRsJhI | | |
| 2) https://youtu.be/K1el91hK36k | | |
| 3) https://youtu.be/bgq1xRb-kdM | | |
| 4) https://youtu.be/-I8gjY0GDYA | | |
| 5) https://youtu.be/5Ygf-u5P3oU | | |
| 6) https://youtu.be/sZ1AJ7nDbFo | | |
| | | |
| Advanced Manufacturing Systems: | | |
| 1) https://youtu.be/5sseHUWBuHs | | |
| 2) https://youtu.be/yXvm84m-5t0 | | |
| 3) https://youtu.be/Vy3-VmJvV9E | | |
| Robots: | | |
| | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

AY:2022-23

| | 1) https://youtu.be/VONRliCuT_w | | |
|-----|-----------------------------------|---|--------|
| | 2) https://youtu.be/lrlt1aKr2ck | | |
| 33. | https://www.youtube.com/watch?v=e | Fluid Properties | Mech. |
| | 6a2q9k2JCA | | Engg. |
| | https://www.youtube.com/watch?v=s | | 21188. |
| | A99mw3D2Ds | | |
| | https://www.youtube.com/watch?v=A | | |
| | 0BuHEqDm88 | | |
| | https://www.youtube.com/watch?v=d | | |
| | • | | |
| | yYkUUtOYpQ | | |
| | https://www.youtube.com/watch?v=E | | |
| | pbuI6CbMRU | | |
| | https://www.youtube.com/watch?v=G | | |
| | 8G2ObAbZ8 | | |
| | https://www.youtube.com/watch?v=H | | |
| | tgFMXZw2Fw&list=PLWPirh4EWF | | |
| | pEduIfhK_VnKCK7VqHDoZKV | | |
| | https://www.youtube.com/watch?v=5 | | |
| | NCOnr3VSAY | | |
| | https://www.youtube.com/watch?v=v | | |
| | y2LW9tUFHA | | |
| 34. | https://www.youtube.com/watch?v=q | Pascal Law | Mech. |
| | GQ4fojjwvQ | | Engg. |
| | https://www.youtube.com/watch?v=w | | 22 |
| | HMHxO9Ys 0 | | |
| | https://www.youtube.com/watch?v=o | | |
| | UF3hWw4tY4 | | |
| | https://www.youtube.com/watch?v=Y | | |
| | uSKghET21A | | |
| 35. | https://www.youtube.com/watch?v=g | Manometers | Mech. |
| | 0kpcCBuXe0 | | Engg. |
| | https://www.youtube.com/watch?v= | | 88 |
| | WmWw_IB6nv4 | | |
| | https://www.youtube.com/watch?v=- | | |
| | P1EvVuuPoI | | |
| | https://www.youtube.com/watch?v=J | | |
| | TM-NvuCW9w | | |
| | https://www.youtube.com/watch?v=1 | | |
| | ey4oBuNSw | | |
| | https://www.youtube.com/watch?v=z | | |
| | PdB4MdRErc | | |
| 36. | | Duoyanay & Floating | Mash |
| 30. | https://www.youtube.com/watch?v=y | Buoyancy & Floating | Mech. |
| | YYzEdJHkak | | Engg. |
| | https://www.youtube.com/watch?v=n | | |
| | MIXU97E-uQ | | |
| | https://www.youtube.com/watch?v=2 | | |
| | RefIvqaYg8 | | |
| | https://www.youtube.com/watch?v=k | | |
| | hc2wUBsFU4 | | |
| | Nidasoshi-501 236 Tao | ı: Hukkeri, Dist: Belagavi, Karnataka, India. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| https://www.youtube.com/watch?v= W5vv6hTMrFo https://www.youtube.com/watch?v=0 UgXP2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKOs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C yWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=E gY38h2LDeo https://www.youtube.com/watch?v=F gY38h2LDeo https://www.youtube.com/watch?v=X | |
|--|--------|
| https://www.youtube.com/watch?v= p-hwElkrlk https://www.youtube.com/watch?v=Q Ugxf2Rj2YQ https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXkg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa37DnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Mc En Mc | |
| p-hwElkrlk https://www.youtube.com/watch?v=Q UgXf2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C yWrkxzCiaY https://www.youtube.com/watch?v=l 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=Q UgXf2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| UgXf2Rj2YQ https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3ygsp4yKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=g MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 KTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=a Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1Pb0XKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=g MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 KTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Mc En | |
| Ew5NdZb2is https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=6 KTvQEMwOffM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=B oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| oTk646edcQ https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKOs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=j XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=E gY38h2LDeo | |
| XEE1PboXKg https://www.youtube.com/watch?v=Z 3vgsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=g MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Mc En | |
| 3ygsp4vKQs https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Me En | |
| https://www.youtube.com/watch?v=c SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=l 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| SjNd2kZW-k https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=u 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAllo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| 8Kikx14LWU https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Me En | |
| https://www.youtube.com/watch?v=C vWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| wWrkxzCiaY https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow Motorial Flow Types of Fluid Flow Motorial Flow Motoria | |
| https://www.youtube.com/watch?v=1 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAIIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow En | |
| 6HDJNoXQII https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow En Metroscopic Structure of Fluid Flow Met | |
| https://www.youtube.com/watch?v=b OKa3rDnTeM 37. https://www.youtube.com/watch?v=gr MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo Types of Fluid Flow En Additional Flow En Types of Fluid Flow En En Types of Fluid Flow En En Types of Fluid Flow En | |
| 37. https://www.youtube.com/watch?v=gr https://www.youtube.com/watch?v=n https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gy38h2LDeo | |
| 37. https://www.youtube.com/watch?v=gr | |
| MmkSP637w https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | 1 |
| https://www.youtube.com/watch?v=n hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| hd8fCCAlIo https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | igg. |
| https://www.youtube.com/watch?v=6 kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| kTvQEMwOfM https://www.youtube.com/watch?v=F gY38h2LDeo | |
| https://www.youtube.com/watch?v=F gY38h2LDeo | |
| gY38h2LDeo | |
| | |
| | |
| Z7CqISBIfE | |
| https://www.youtube.com/watch?v=5 | |
| 6AyTIhNQBo | |
| https://www.youtube.com/watch?v=F | |
| <u>ZYnewBWUoc</u> | |
| 38. <u>https://www.youtube.com/watch?v=E</u> Fluid Deformations Me | ech. |
| 8yPWd-DwcQ En | ngg. |
| https://www.youtube.com/watch?v=9 | |
| <u>6fYQFPGwzU</u> | |
| https://www.youtube.com/watch?v=c | |
| 6ndD5kTkP4 | |
| https://www.youtube.com/watch?v=H | |
| 9u8O4osE0g | |
| https://www.youtube.com/watch?v=v | |
| C569UD49yA | |
| 39. https://www.youtube.com/channel/U Continuity Equation Me | a a la |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

| | <u>CkDw-</u> | | Engg. |
|-----|------------------------------------|--|-------|
| | LPU1Nnd2WRsfnDbUcA?v=lN20Vr | | |
| | <u>Pmxdk</u> | | |
| | https://www.youtube.com/watch?v=jn | | |
| | <u>g6cW9r0w</u> | | |
| | https://www.youtube.com/watch?v= | | |
| | WGuzqF2GCBg | | |
| | https://www.youtube.com/watch?v=y | | |
| | cgJvnm24ks | | |
| | https://www.youtube.com/watch?v=8 | | |
| | wM7_vgBSQA | | |
| 40. | https://www.youtube.com/watch?v=U | Bernoulli's Equation | Mech. |
| | J3-Zm1wbIQ | | Engg. |
| | https://www.youtube.com/watch?v=b | | |
| | C8v6hlXnSk | | |
| | https://www.youtube.com/watch?v=m | | |
| | geIWXld9FU | | |
| | https://www.youtube.com/watch?v=8 | | |
| | vqMotb6m3c | | |
| | https://www.youtube.com/watch?v=Y | | |
| | yeX6ArxCYI | | |
| | https://www.youtube.com/watch?v=br | | |
| | N9citH0RA | | |
| | https://www.youtube.com/watch?v=O | | |
| | 8qCA2mZvVI | | |
| | https://www.youtube.com/watch?v=U | | |
| | xYH41vV-DI | | |
| 41. | https://www.youtube.com/watch?v=J | N-S equations & Applications like | Mech. |
| | H3l-NliCkM | CoutteandHagen- Poiseuille Flows | Engg. |
| | https://www.youtube.com/watch?v=v | _ | |
| | xJrb7JKigQ | | |
| | https://www.youtube.com/watch?v=5 | | |
| | w4cJBdFHFw | | |
| | https://www.youtube.com/watch?v=b | | |
| | 5CwH5AlCkw | | |
| | https://www.youtube.com/watch?v=q | | |
| | CosEM9h0AU | | |
| | https://www.youtube.com/watch?v=k | | |
| | 7ZZtxdtmeQ | | |
| | https://www.youtube.com/watch?v=z | | |
| | MfssrddyRU | | |
| | https://www.youtube.com/watch?v=G | | |
| | 3bO8RcRgxQ | | |
| | https://www.youtube.com/watch?v=x | | |
| | wyssfQ6oVc | | |
| | https://www.youtube.com/watch?v= | | |
| | hvgvZuIZOc | | |
| | https://www.youtube.com/watch?v=6 | | |
| | zoOBwI5BEY | | |
| | | : Hukkeri. Dist: Belagavi. Karnataka. India. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 42. | https://www.youtube.com/watch?v=6 | Losses in Pipe-flow | Mech. |
|-----|------------------------------------|---|--------|
| | <u>DFe8eUrbcI</u> | | Engg. |
| | https://www.youtube.com/watch?v=G | | |
| | 4rbUtAxgHM | | |
| | https://www.youtube.com/watch?v=U | | |
| | flurPbj-UA | | |
| | https://www.youtube.com/watch?v=k | | |
| | JlJoAKveJA | | |
| | https://www.youtube.com/watch?v=D | | |
| | 8I9JvlvZuQ | | |
| | https://www.youtube.com/watch?v=jb | | |
| | RkpXEJO64 | | |
| | https://www.youtube.com/watch?v=T | | |
| | KMPpcxSER4 | | |
| 43. | | Lift and Drag Forces | Mech. |
| 15. | tiFEei3AI | Bit and Brag 1 orees | Engg. |
| | https://www.youtube.com/watch?v=9 | | Lings. |
| | xhJ0-OROg | | |
| | https://www.youtube.com/watch?v=w | | |
| | 78JT6azrZU | | |
| | https://www.youtube.com/watch?v=F | | |
| | ev8FWVcC-A | | |
| | https://www.youtube.com/watch?v=g | | |
| | sUlaQ6IxSU | | |
| | https://www.youtube.com/watch?v=O | | |
| | 0TBcasl8u0 | | |
| | https://www.youtube.com/watch?v=A | | |
| | XiThF1LXU | | |
| | https://www.youtube.com/watch?v=S | | |
| | 1kU6sSefr0 | | |
| | | | |
| | https://www.youtube.com/watch?v=Z | | |
| | bD0Ebc8RGg | | |
| | https://www.youtube.com/watch?v=8 | | |
| | pp47Y8dLJk | | |
| | https://www.youtube.com/watch?v=Ft | | |
| | j6A2P7lmw | | |
| | https://www.youtube.com/watch?v=dj | | |
| 1.1 | CCno4Cbcw | Ctroomline and Dluff Dadu | Mech. |
| 44. | - | Streamline and Bluff Body | |
| | HXkouhw758 | | Engg. |
| | https://www.youtube.com/watch?v=B | | |
| | J96HCVTTew | | |
| | https://www.youtube.com/watch?v=A | | |
| | kBn-lpWgVs | | |
| 45. | - | Mach No. and Supersonic, Subsonic Flows | Mech. |
| | BJ3tXCjzN0 | | Engg. |
| | https://www.youtube.com/watch?v=X | | |
| | 871jMv0aKk | | |
| | https://www.youtube.com/watch?v=B | | |

1000 PM

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC
Academics
Pedagogy &
e-Resources

AY:2022-23

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| | Ta | | T |
|-----|--|----------------------|----------|
| | hqo6ne6Y_A | | |
| | https://www.youtube.com/watch?v=x | | |
| | sp0kGrwXW4 | | |
| | https://www.youtube.com/watch?v=P | | |
| | Tc0yftUA2c | | |
| | https://www.youtube.com/watch?v=fx | | |
| | eQOQSmqRs https://www.youtube.com/watch?v= | | |
| | W9dhUPkFBR8 | | |
| | https://www.youtube.com/watch?v=V | | |
| | laGxYjnoPY | | |
| | https://www.youtube.com/watch?v=1 | | |
| | m3 dx2E4Z8 | | |
| | https://www.youtube.com/watch?v=u | | |
| | gPJYJ-BKkU | | |
| | https://www.youtube.com/watch?v=Ii | | |
| | <u>V3cPADCgg</u> | | |
| | https://www.youtube.com/watch?v=X | | |
| | <u>sntPXYOgpQ</u> | | |
| | https://www.youtube.com/watch?v=rr | | |
| | Cs-KYZ57Y | | |
| 46. | | CFD Applications | Mech. |
| | USG6SMsn10 | | Engg. |
| | https://www.youtube.com/watch?v=lt | | |
| | pSEn-vQS8 https://www.youtube.com/watch?v=B | | |
| | -z54jx8u5k | | |
| | https://www.youtube.com/watch?v=h | | |
| | zTCCcsOTg8 | | |
| 47. | | Fluid Statics | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur.htm | | |
| | 111/020Kanput.iitiii | | |
| 48. | file:///D:/Department/SUBJECTS/Flui | Kinematics of Fluids | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur1.htm | | |
| | 111 /0 20 Kanpur 1. nulli | | |
| 49. | file:///D:/Department/SUBJECTS/Flui | Equations of Motion | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT% 20Kanpur3.htm | | |
| | 111/0201xmput3.nun | | |
| | 1 | | <u> </u> |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy & e-Resources

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

AY:2022-23

| 50 | file:///D:/Deportment/GLDIECTG/E1-: | Dimensional Analysis | Maala |
|-----|--|---|--------|
| 50. | file:///D:/Department/SUBJECTS/Fluid%20Mechanics/Fluid%20Mechanics | Dimensional Analysis | Mech. |
| | %20Notes/fluid%20mechanics%20N | | Engg. |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20KAnpur4.htm | | |
| 51. | file:///D:/Department/SUBJECTS/Flui | Ideal Flow | Mech. |
| 31. | d%20Mechanics/Fluid%20Mechanics | rucai i iow | Engg. |
| | | | Lings. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur5.htm | | |
| 52. | file:///D:/Department/SUBJECTS/Flui | Viscous Incompressible flow | Mech. |
| 52. | d%20Mechanics/Fluid%20Mechanics | w is could incompressione incom | Engg. |
| | %20Notes/fluid%20mechanics%20N | | 88 |
| | | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT% 20Kanpur6.htm | | |
| 53. | file:///D:/Department/SUBJECTS/Flui | Flow over flat plate and Boundary Layer | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | Equations | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur7.htm | | |
| | ii i /o Bortang ar / man | | |
| 54. | file:///D:/Department/SUBJECTS/Flui | Flow through pipes | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur9.htm | | |
| | - | | |
| 55. | file:///D:/Department/SUBJECTS/Flui | Compressible flow | Mech. |
| | d%20Mechanics/Fluid%20Mechanics | | Engg. |
| | %20Notes/fluid%20mechanics%20N | | |
| | PTEL%20Notes/NPTEL%20Online- | | |
| | IIT%20Kanpur10.htm | | |
| | * | | |
| 56. | , 1 | Fluid Mechanics | Mech. |
| | supplied and solved in the class. | | Engg. |
| | 2) Notes has been supplied to the | | |
| | students. | | |
| | 3) The soft and hard copies of VTU | | |
| | question papers provided to the students. | | |
| | students. | | |
| | | | 1 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics Pedagogy & e-Resources Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE AY:2022-23

List of Pedagogical Initiatives and Innovative Teaching aids used by the teachers to promote experiential learning among the students (2018-19 to 2023-24)

| S.N. | Faculty Name | Pedagogical initiatives and Innovative teaching aids | Course/Topic | Branch |
|------|-----------------------|--|--|--------|
| 1 | Prof. S. S. Kamate | Models are prepared to teach the basics of coordinate systems. | Concept of Spherical Coordinate System, Cylindrical Coordinate Sytem& Cartesian Coordinate Sstem https://youtu.be/CW3WaE798dU | ECE |
| 2 | Prof. P. V. Patil | Concept of Superposition Theorem | Network Theory https://youtu.be/bLqBJCdZgjY | ECE |

List of online resources & Web links(2018-19 to 2023-24)

| S.N. | Faculty Name | Online resources | Web links | Branch |
|------|-------------------|-----------------------------|-------------------------------|--------|
| 1 | Prof. S. S. Patil | Introduction to Embedded | https://www.youtube.com/watch | ECE |
| | | Systems | ?v=OG91AlP_2XA | |
| | | The Typical Embedded | https://www.youtube.com/watch | ECE |
| | | Systems | ?v=glEPCAZmcvA | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=0vO14GLGRUs | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=bKPCxj0hiiw | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=aPgZpxQijJ0 | |
| | | | https://www.youtube.com/watch | ECE |
| | | | ?v=XZ8hClk0uSQ | |
| | | Characteristics and Quality | https://www.youtube.com/watch | ECE |
| | | Attributes of Embedded | ?v=jbdtPYtGeY0 | |
| | | Systems | | |
| | | Embedded Systems- | https://www.youtube.com/watch | ECE |
| | | Application and domain | ?v=hiljMGpCAno | |
| | | specific | | |
| | | Hardware Software Co-design | https://www.youtube.com/watch | ECE |
| | | and Program modeling | ?v=J-beEbEPNSY | |
| | | Embedded Firmware Design | https://www.youtube.com/watch | ECE |
| | | and Development | ?v=huBPGmYj138 | |
| | | Real-Time Operating | https://www.youtube.com/watch | ECE |
| | | System(RTOS) based ES | ?v=qLxEeRpFtUo | |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in **IQAC**

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

| | | design | https://www.youtube.com/watch ?v=4RHxzX49vRU | ECE |
|---|------------|---------------------------------|---|-----|
| | | | https://www.youtube.com/watch ?v=9WhPUnwALdc | ECE |
| | | | https://www.youtube.com/watch ?v=MgfvdUNTo6o | ECE |
| | | | https://www.youtube.com/watch ?v=FsJh0b_KWGM | ECE |
| 2 | Dr.S.S. | Gram Schmidt | Digital Communication | ECE |
| | Ittannavar | Orthogonalization Procedure | https://www.youtube.com/watch? v=HX4EMJqdeZI | |
| 3 | Prof.S.S. | Introduction to Control Problem | Control Systems | ECE |
| | Malaj | concepts of Stability | https://youtube.com/watch?v=vV | |
| | - | | FDm_CdQw | |
| | | | | |
| 4 | Prof.P.V. | Microcontroller | https://onlinecourses.nptel.ac.in/n | ECE |
| | Patil | | oc24 ee46/preview | |
| 5 | Prof.P.V. | Microcontroller | https://youtube.com/playlist?list= | ECE |
| | Patil | | PLcwp2fRcIXJUFthj5CKNNam | |
| | | | SBDtf3We7A&si=4Xyi62FhRWj | |
| | | | <u>vuMz_</u> | |

E-resource

| S.N. | ICT enabled tools, Video lectures, e-resource etc | Course/ Topic | Dept. |
|------|--|-----------------|-------|
| 1. | https://nptel.ac.in/courses/108102095/ | | |
| 2. | https://youtu.be/l6M6FvjUdTI | | |
| 3. | https://youtu.be/c3oKdjDImXo | | |
| 4. | https://youtu.be/jaOxeB-BQ8E | | |
| 5. | https://youtu.be/6Zm9Kt5-cxQ | Analog | |
| 6. | https://youtu.be/iLCQUHJkFM8 | Electronic | |
| 7. | https://youtu.be/SpvmeG1hs7k | Circuits | |
| 8. | https://youtu.be/0K6vyowDAKM | | EEE |
| 9. | https://youtu.be/Sr-Sm_d3oVE | | |
| 10. | https://youtu.be/Pe6BmuAc2OY | | |
| 11. | https://youtu.be/btphIK1d4Ro | | |
| 12. | http://nptel.vtu.ac.in/econtent/courses/EEE/15EE32/index.php | Network | |
| 13. | http://nptel.vtu.ac.in/econtent/courses/ECE/15EC34/index.php | Analysis | |
| 14. | https://www.youtube.com/watch?v=3rOvQ3qFZpI | Measurements | |
| 15. | https://www.youtube.com/watch?v=EWTPvrJQG 4 | and | |
| 16. | https://www.youtube.com/watch?v=jyRT2dJAuAg | Instrumentation | |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in

100 O TO

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

| 17. | https://www.youtube.com/watch?v=u5lh_nyCXEs | | |
|-----|---|-----------------|-----|
| 18. | https://www.youtube.com/watch?v=xX2YjPwZY-g | | |
| 19. | https://www.youtube.com/watch?v=jlPzA95zXKs | | |
| 20. | https://www.youtube.com/watch?v=KsykW43-g24 | | |
| 21. | https://www.youtube.com/watch?v=wO6Eh r8IEs | | |
| 22. | https://www.youtube.com/watch?v=-orsmxHOLOM | | |
| 23. | https://www.youtube.com/watch?v=Bf3547WB5qs | | |
| 24. | https://www.youtube.com/watch?v=SNMI2skCOpQ | | |
| 25. | https://www.youtube.com/watch?v=uy9lZCdkQIM&list=P | | |
| 26. | https://www.youtube.com/watch?v=Yg6XsepGCKY&list= | Electrical | |
| | PLD4ED2FAF3C155625&index=2 | Power | |
| 27. | https://www.youtube.com/watch?v=45_nQN- | Generation | |
| | 9XSs&list=PLD4ED2FAF3C155625&index=3 | | |
| 28. | https://www.youtube.com/watch?v=MqWeH3zp5GY&list | | |
| | =PLXgxwcpUnIG-EvGsehcV8Rj7VZcsd1JYB | | |
| 29. | https://www.youtube.com/watch?v=liRPtvj7bFU&list=PL692A7B9169 | Micro | |
| 20 | 289C4F | controller | |
| 30. | https://www.youtube.com/watch?v=zXMklO-jxIo | | |
| 31. | https://www.youtube.com/watch?v=EEaOR2p9G2k | | |
| 32. | https://www.youtube.com/watch?v=pA6K5NgWTow | | |
| 33. | https://www.youtube.com/watch?v=1Auay7ja2oY&list=PL6D4C86948 7881352 | | |
| 34. | https://www.youtube.com/watch?v=PEg0zb3cg2A&list=PL6D4C8694 | | |
| | 87881352&index=2 | | |
| 35. | https://www.youtube.com/watch?v=p 4j x4ZyzM&list=PL6D4C8694 87881352&index=3 | Power | |
| 36. | https://www.youtube.com/watch?v=QqFlHhSkayw&list=PL6D4C8694 87881352&index=4 | Electronics | |
| 37. | https://www.youtube.com/watch?v=R- | | |
| | ZGu5KAF90&list=PL6D4C869487881352&index=5 | | |
| 38. | https://www.youtube.com/watch?v=ZYzuUWypgVw&list=PL6D4C86 | | |
| | 9487881352&index=9 | | |
| 39. | https://youtu.be/qmcriUdYBW0?list=PL59861DBF8EC85491 | | |
| 40. | https://youtu.be/KOE_ec-MkAA?list=PL59861DBF8EC85491 | Transformer & | |
| 41. | https://youtu.be/cneuckplrtI?list=PL59861DBF8EC85491 | Induction | |
| 42. | https://youtu.be/pNTsowZYUSs?list=PL59861DBF8EC85 | Machines | |
| 43. | https://youtu.be/dZyO5gcWP- | Macinics | |
| | o?list=PLLQiBbMXygz7zALKpbP87g4QaS9YGesZ5 | | |
| 44. | http://www.nptelvideos.in/2012/12/signals-and-system.html | Signals and | |
| 45. | https://www.youtube.com/watch?v=xrVWB9VYZ64&list=PLq- | Systems | EEE |
| | Gm0yRYwTjwxaqapPsSAHzs4_nkQLVr | | |
| 46. | https://www.youtube.com/watch?v=879pXoml0XI | | |
| 47. | https://youtu.be/NiHPu5PltCY?list=PL59861DBF8EC85491 | D.C. Machines | |
| 48. | https://youtu.be/E15Xs-5rFS0?list=PL59861DBF8EC85491 | and Synch. | |
| 49. | https://youtu.be/b24jORRoxEc | Machines | |
| 50. | https://youtu.be/o9-xSeWuhng?list=PL59861DBF8EC85491 | | |
| 51. | https://www.youtube.com/watch?v=ZjcLlHcsDZs | Linear IC's and | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 52. | https://www.youtube.com/watch?v=egCiRSasxpw | Applications | |
|-----|---|----------------|--|
| 53. | https://www.youtube.com/watch?v=TQlyLhOFyKI | | |
| 54. | https://www.youtube.com/watch?v=gbUXbaxvX94 | | |
| 55. | https://pt.coursera.org/lecture/electronics/3-2-first-order-highpass- | | |
| | <u>filters-OhCWF</u> | | |
| 56. | https://www.youtube.com/watch?v=gEeF8sEQTEc | | |
| 57. | https://www.youtube.com/watch?v=vVfLRM2DgLY | High Voltage | |
| 58. | https://www.youtube.com/watch?v=yP7OACmLP48 | Engg. | |
| 59. | https://www.youtube.com/watch?v=1bkiWJKxkfo | | |
| 60. | https://www.youtube.com/watch?v=aMux1jYFFY8&list=PLc259Dvju | | |
| | XMDo8n BFwoNwAagCxPL0dDk&index=5&t=0s | | |
| 61. | https://www.youtube.com/watch?v=3aQsJYZaw_U | | |
| 62. | https://www.youtube.com/watch?v=PKXPeTvmVQg | | |
| 63. | https://www.youtube.com/watch?v=CODhHSpWp3k | | |
| | | | |
| 64. | https://nptel.ac.in/courses/108104052/ | Power System | |
| | | Operation and | |
| 65. | https://www.youtube.com/watch?%2049EM82UO99c | Control | |
| | | | |
| 66. | https://nptel.ac.in/courses/11210422/22 | Renewable | |
| | | Energy sources | |
| 67. | https://nptel.ac.in/courses/18105058/37 | | |
| | | | |
| 68. | https://www.youtube.com/wtch?v=GRwJqD4StEU | | |
| | 40007040 | | |
| 69. | https://nptel.ac.in/courses/10805060/ | Electrical | |
| | | Power | |
| 70. | https://nptel.ac.in/courses/11314008/38 | Utilization | |
| | | | |

List of Pedagogical Initiatives and Innovative Teaching aids used by the teachers to promote experiential learning among the students

AY: 2018-19

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|--|---|-------|
| 01 | ICT Enabled Tools: PPT | Management & Entrepreneurship for IT Industry | CSE |
| 02 | ICT Enabled Tools: PPT, Notes | Automata Theory & Computability | CSE |
| 03 | ICT Enabled Tools: Notes | Data Structures & Application | CSE |
| 04 | ICT Enabled Tools: PPT, Notes | Cloud Computing & Its Application | CSE |
| 05 | ICT Enabled Tools: PPT, Notes | Advanced Java and J2EE | CSE |
| 06 | ICT Enabled Tools: PPT | Computer Organization | CSE |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC
Academics
Pedagogy & e-Resources
AY:2022-23

| 07 | ICT Enabled Tools: PPT, Notes | Computer Programming & Solving | CSE |
|----|-------------------------------|--|-----|
| 08 | ICT Enabled Tools: PPT, Notes | .Net Framework For Application Development | CSE |
| 09 | ICT Enabled Tools: Notes | Discrete Mathematical Structure | CSE |
| 10 | ICT Enabled Tools: PPT, Notes | Web Technology & Its Applications | CSE |
| 11 | ICT Enabled Tools: Notes | Introduction to Software Testing | CSE |
| 12 | ICT Enabled Tools: PPT, Notes | Machine Learning | CSE |
| 13 | ICT Enabled Tools: PPT, Notes | Unix Shell Programming | CSE |
| 14 | ICT Enabled Tools: PPT, Notes | Database Management Systems | CSE |
| 15 | ICT Enabled Tools: PPT, Notes | Storage Area Networks | CSE |
| 16 | ICT Enabled Tools: PPT, Notes | Computer Networks | CSE |
| 17 | ICT Enabled Tools: PPT, Notes | C Programming for Problem Solving | CSE |

AY: 2019-20

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|--|---|-------|
| 01 | ICT Enabled Tools: PPT | Management & Entrepreneurship for IT Industry | CSE |
| 02 | ICT Enabled Tools: PPT, Notes | Automata Theory & Computability | CSE |
| 03 | ICT Enabled Tools: Notes | Data Structures & Application | CSE |
| 04 | ICT Enabled Tools: PPT, Notes | Cloud Computing & Its Application | CSE |
| 05 | ICT Enabled Tools: PPT, Notes | Advanced Java and J2EE | CSE |
| 06 | ICT Enabled Tools: PPT | Computer Organization | CSE |
| 07 | ICT Enabled Tools: PPT, Notes | Computer Programming & Solving | CSE |
| 08 | ICT Enabled Tools: PPT, Notes | .Net Framework For Application Development | CSE |
| 09 | ICT Enabled Tools: Notes | Discrete Mathematical Structure | CSE |
| 10 | ICT Enabled Tools: PPT, Notes | Web Technology & Its Applications | CSE |
| 11 | ICT Enabled Tools: Notes | Introduction to Software Testing | CSE |
| 12 | ICT Enabled Tools: PPT, Notes | Machine Learning | CSE |
| 13 | ICT Enabled Tools: PPT, Notes | Unix Shell Programming | CSE |
| 14 | ICT Enabled Tools: PPT, Notes | Database Management Systems | CSE |
| 15 | ICT Enabled Tools: PPT, Notes | Storage Area Networks | CSE |
| 16 | ICT Enabled Tools: PPT, Notes | Computer Networks | CSE |
| 17 | ICT Enabled Tools: PPT, Notes | C Programming for Problem Solving | CSE |

AY: 2020-21

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | |
|------|---|---|-----|
| 01 | Models / Charts | Computer Graphics Lab with Mini Projects(Recursive subdivision of tetrahendra to form 3D sierpinski gasket) | CSE |
| 02 | ICT Enabled Tools: Simulation | Application Development using Python Programming (Function Definition & Function Call) | CSE |

10000 mm

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Pedagogy & e-Resources
AY:2022-23

AY: 2021-22

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|---|---|-------|
| 01 | Video Lectures | Big Data Analytics (Decision Trees) | CSE |
| 02 | ICT Enabled Tools: PPT | Data Mining & Ware Housing (Apache Pig) | CSE |
| 03 | ICT Enabled Tools: PPT | Big Data Analytics(Decision Trees) | CSE |
| 04 | ICT Enabled Tools: PPT | System Software and Compilers (Introduction to Compilers andLexical Analysis) | CSE |
| 05 | ICT Enabled Tools: PPT | Object Oriented Concepts (Objects and Arrays C++ Part) | CSE |
| 06 | NPTEL Video Lectures | System Software and Compilers (Parsing) | |
| 07 | Models / Charts | Data Mining and Data Warehousing (OLAP Operations) | CSE |
| 08 | NPTEL Video Lectures | Web Technology and it's Applications (HTML Forms) | CSE |
| 09 | NPTEL Video Lectures | Application Development Using Python (Exception Handling and Strings) | |
| 10 | Models / Charts | Artificial Intelligence and Machine Learning (Machine Learning Process and Types) | CSE |
| 11 | NPTEL Video Lectures | Computer Networks and Security (Universal Hashing) | CSE |
| 12 | NPTEL Video Lectures | Big Data Analytics (Mongo DB) | CSE |
| 13 | Models / Charts | Big Data Analytics (Apache Hadoop Ecosystem) | CSE |
| 14 | NPTEL Video Lectures | Management & Entrepreneurship for IT Industry (Entrepreneurship and Employment) | CSE |
| 15 | Models / Charts | Management & Entrepreneurship for IT Industry (Corporate/Social Entrepreneur) | |
| 16 | Models / Charts | Computer Networks & Security (Network Security Mechanisms) | CSE |

AY: 2022-23

| S.N. | Pedagogical Initiatives and Innovative Teaching Aids (ICT Enabled Tools, Video Lectures, E-resources etc.) | Course/Topic | Dept. |
|------|---|---|-------|
| 01 | Models/ Charts | Database Management Systems (Three Schema Architecture) | CSE |
| 02 | Models/ Charts | Cryptography (Data Encryption Standard) | CSE |
| 03 | ICT Enabled Tools : Technical Session | Python Application Programming (Setting up Python Environment to create, run and bug) | |
| 04 | Models/ Charts | Python Application Programming (Cheat Sheets of Python) | |
| 05 | NPTEL Video Lectures | Web Technology & Its Applications (HTML Forms) | CSE |
| 06 | NPTEL Video Lectures | Design & Analysis of Algorithms (Greedy Method) | CSE |
| 07 | NPTEL Video Lectures | Web Technology & Its Applications (Sate in Web Applications) | CSE |
| 08 | Models/ Charts | Design & Analysis of Algorithms (Backtracking) | CSE |



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC
Academics
Pedagogy &
e-Resources
AY:2022-23

| 09 | Models/ Charts | Storage Area Networks | CSE |
|----|---------------------------------------|---|-----|
| 10 | Models/ Charts | Computer Graphics & Visualization (OpenGL Primitives, CG Components, 2D Transformations) | |
| 11 | Models/ Charts | Operating System (Types, Components, Scheduling and Deadlock) | |
| 12 | Models/ Charts | Programming in Java (Cheat Sheets of Java) | CSE |
| 13 | ICT Enabled Tools : Technical Session | Programming in Java (Setting up Java JDK Environment to create, run and debug) | CSE |
| 14 | Models/ Charts | Introduction to Python Programming (Visual execution of python programs) | CSE |
| 15 | Models/ Charts | Principles of programming using C (Visual execution of C programs) | CSE |
| 16 | Tool Demonstration | Data Mining & Data Warehousing (Data Visualization Tool Tableau Desktop) | |
| 17 | Tool Demonstration | Big Data Analytics (Apache Hive) | CSE |
| 18 | NPTEL Video Lectures | Principles of C Programming (Structures & Pointers) | CSE |
| 19 | Models/ Charts | Principles of C Programming (Simulation of Searching & Sorting Techniques) | |
| 20 | Models / Charts | Principles of C Programming (Visualize the execution of C Programs) | CSE |
| 21 | Models / Charts | Unix Programming (UNIX System Architecture) | CSE |
| 22 | NPTEL Video Lectures | Unix Programming (File System in UNIX) | CSE |
| 23 | Models / Charts | System Software & Compilers (Phases of Compiler) | CSE |
| 24 | NPTEL Video Lectures | Compiler Design (Syntax Directed Translation) | CSE |
| 25 | Models / Charts | Introduction to Python Programming (Demonstrate & visualize basic data types (list, tuple, directory) and code execution. | |
| 26 | NPTEL Video Lectures | Data Structures & Applications (Arrays) | CSE |
| 27 | Models / Charts | Data Structures & Applications (Tower of Hanoi Problem) | CSE |
| | NPTEL Video Lectures | Automata Theory & Computability (Turing Machines) | CSE |

Dr.S.N.Topannavar

ICAC Coordinator

Hirasugar Institute of Technology

Nidasoshi-591236



Dr.S.C.Kamate
Principal
PRINCIPAL
Hirasugar Institute of Technology
Nidasoshi-591 236

THE OWNER OF THE OWNER OWNE

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC

Academics

Student Centric
Methods

Project Works

List of Projects works carried out by the students for experiential learning and methodologies for problem solving during the last 5 Years

Institute is permanently affiliated to the Visvesvaraya Technological University, Belgaum. In view of NEP-2020 based revised curriculum of the affiliated university and in the interest of the nation development, the institute has provided well established policies, guidelines and ecosystem to promote project-based learning (PBL) to the pre-final year and final year students to complete their mini-projects and to complete projects during phase-I and phase-II respectively. During the project work and under the faculty guidance, students will learn to write and present the project synopsis to attract sponsorships and awards from the various agencies. Students will also acquire skills such as conducting literature survey, deigning of components, fabrication and assembling of parts, demonstration, synthesis, simulation, report writing etc. Each department facilitated to conduct progress review meeting time to time till completion of the project successfully. The synopsis and progress presentation of project team is evaluated through the proper rubrics defined by the evaluation committee at the HOD's meeting. The institute also facilitates to conduct project exhibitions and demonstrations in the campus, where the students will participate. The students are also encouraged to exhibit their project in the external competitions and some teams won the prizes. Every year students' projects attracted sponsorship/financial supports from the various agencies. Some students' projects published in the reputed international journals. The following are the list of projects (Mini & major) carried out by the students during last 5 years.

| S.N. | Project Title | Academic Year | Dept. |
|------|---|------------------|-------|
| 1. | Study on performs and emission characteristics of diesel engine fueled with Honge Biodiesel | 2018-19 | ME |
| 2. | Cooling of Solar Photovoltaic Cells by Passive system using PCM Material | 2018-19 | ME |
| 3. | Analysis of Aerodynamics of Car Body in wind tunnel | 2018-19 | ME |
| 4. | Analysis of wind turbine blade Aerodynamic Profile in wind tunnel | 2018-19 | ME |
| 5. | Analysis and optimization of diesel engine component | 2018-19 | ME |
| 6. | Experimental investigation of the effect of CR and oxygen compound on four stroke single cylinder DI diesel engine Operated on Bio-Diesel | 2018-19 | ME |
| 7. | Analysis of aero file profiles using wind tunnel | 2018-19 | ME |
| 8. | Smart Bike | 2018-19 | ME |
| 9. | Experimental Investigation on effect of chemical composition on stability of the flame | 2018-19 | ME |
| 10. | Experimental Investigation on effect of Flame structure on the Flame transfer Pressurized gas . | 2018-19 | ME |
| 11. | Effect of IOP, IT and EGR On the performance of diesel engine operated | 2018-19 | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| | · | | |
|-----|---|---------|-------|
| | with Tallow Oil Methyl Ester. (Sponsored By KSCST) | | |
| 12. | Effect of Diesel fuel additive CR and EGR on the performance and | 2010 10 | ME |
| | emission of diesel engine operated with FOME | 2018-19 | |
| 13. | Hydrogen Engine | 2018-19 | ME |
| 14. | Experimental investigation of Aluminium alloy through surface treatment. | 2018-19 | ME |
| 15. | Design and fabrication of fitness equipment for generation (Sponsored By | 2010 10 |) (F |
| | KSCST) | 2018-19 | ME |
| 16. | Solar Lawn cutter with fertilizer sprayer. | 2018-19 | ME |
| 17. | Design development of Two wheeler seat Accessory | 2018-19 | ME |
| 18. | Multi Degree Freedom Robotic Arm (Sponsored By KSCST) | 2018-19 | ME |
| 19. | Electric assisted air propelled bicycle | 2018-19 | ME |
| 20. | Design and fabrication of chair less chair. | 2018-19 | ME |
| 21. | Design of deferent blades for soil tiller, weeder Gross cutter | 2018-19 | ME |
| 22. | Seed collecting and bagging machine | 2018-19 | ME |
| 23. | Design and fabrication of water cooler cum heater and Air cooler cum | | |
| | Heater. | 2018-19 | ME |
| 24. | Versatile Plantation Machine . | 2018-19 | ME |
| 25. | Electricity Generation by Foot step. | 2018-19 | ME |
| 26. | Manufacturing of electrically Operated waste collecting machine from | | ME |
| | stagnant water, ponds etc. | 2018-19 | |
| 27. | Fabrication composite material based on waste materials(Wood - | 2010 10 |) (T) |
| | Plastics). (Sponsored By KSCST) | 2018-19 | ME |
| 28. | Thermal behavior of Ground nut cell based composites . | 2018-19 | ME |
| 29. | Design and fabrication of composite file making multi functional machine | 2010 10 | МЕ |
| | by using recycling plastics. | 2018-19 | ME |
| 30. | Analysis and Optimization combustion chamber of diesel engine. | 2018-19 | ME |
| 31. | Multi-purpose stove using agriculture waste as fuel | 2019-20 | ME |
| 32. | Cam Operated Affordable Screening Machine | 2019-20 | ME |
| 33. | Design and fabrication of specimen polishing machine for metallurgical | 2010.20 | ME |
| | applications | 2019-20 | ME |
| 34. | Inbuilt Hydraulic lifting machine | 2019-20 | ME |
| 35. | Effect of Multi- walled Carbon Nanotube (CNT) as a nano additive in DI- | 2019-20 | ME |
| | CI engine fuelled with Tallow Oil Methyl Ester | 2019-20 | IVIE |
| 36. | Design and Fabrication of Magnetically Levitated Harmony Vertical Axis | 2019-20 | ME |
| | Wind Turbine | 2019-20 | |
| 37. | Solar Powered Flood Assist Vehicle for Flood and disaster control | 2019-20 | ME |
| | Management | 2019-20 | IVIL |
| 38. | Production and testing of cellulose-based bio-composites | 2019-20 | ME |
| 39. | Small Scale Unit to Manufacture Organic Incense (DHOOP) (Sponsored | 2019-20 | ME |
| | By KSCST) | 2019-2U | IVIE |
| 40. | Influence of Aluminum oxide (Al ₂ O ₃) Nano particle added Fish oil Methyl | | ME |
| | Ester biodiesel on the Performance & Emission of Diesel Engine | 2019-20 | |
| | (Sponsored By KSCST) | | |
| 41. | Power Generation using Waste Garbage | 2019-20 | ME |
| 42. | Electrical Assisted Agricultural plough and soil annealing machine | 2019-20 | ME |
| 43. | Compact Bicycle | 2019-20 | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| 44. | Conversion of conventional two wheeler to hybrid two wheeler | 2019-20 | ME |
|-----|---|---------|-------|
| 45. | Influence of Injection Pressure and Injector geometry on the performance | | |
| 15. | and emission of Diesel operated with Catton seed oil methyl ester | 2019-20 | ME |
| 46. | Development of Agriculture waste briquetting machine | 2019-20 | ME |
| 47. | Design and fabrication of Utensils washing machine | 2019-20 | ME |
| 48. | Former friendly pesticide sprayer | 2019-20 | ME |
| 49. | Mixed mode solar cabinet dryer (Sponsored By KSCST) | 2019-20 | ME |
| 50. | Pendulum based water pumping and power generation | 2019-20 | ME |
| 51. | Domestic Solar water Purification System for rural India | 2019-20 | ME |
| 52. | Development of hybrid composite material using armide fiber and jute | | ME |
| 32. | fiber for manufacturing the Helmet (Sponsored By KSCST) | 2019-20 | 14112 |
| 53. | Multidirectional Advanced Dumping Trailer | 2019-20 | ME |
| 54. | Investigation of Mechanical Properties for wood Plastic Composite | | ME |
| 54. | Material Material | 2019-20 | WIL |
| 55. | Solar cum pedal operated water purifier. | 2019-20 | ME |
| 56. | Eco Friendly Mosquito Repellent Coil manufacturing Unit for Future India | 2019-20 | ME |
| 57. | Investigation of fire behavior and degradation of bio-composites to | 2019-20 | ME |
| | enhance its durability | 2019-20 | ME |
| 58. | Design and Fabrication of an Automatic Black Board Cleaner (Sponsored By KSCST) | 2019-20 | ME |
| 59. | Solar Operated automatic Sugarcane lifting Machine | 2019-20 | ME |
| 60. | Low cost Eco carrier bag Making Machine | 2019-20 | ME |
| 61. | Multipurpose agricultural equipment | 2019-20 | ME |
| 62. | Exhaust emission and its control technology by using Activated viscous | 2017 20 | ME |
| 02. | fibre and Zeolite from exhaust gas of an IC engine (Sponsored By | 2019-20 | 1,123 |
| | KSCST) | 2017 20 | |
| 63. | Eco-friendly Fly Ash-saw Dust Composite Material | 2020-21 | ME |
| 64. | Design and Manufacturing of solar powered seed sowing machine | 2020-21 | ME |
| 65. | Solar Bubble Dryer (Sponsored By KSCST) | 2020-21 | ME |
| 66. | Three wheeled segway for patroling | 2020-21 | ME |
| 67. | Design and Implementation of a Solar powered smart irrigation system | 2020-21 | ME |
| 68. | Lawn mower with wireless robot in Agriculture Field (Sponsored By | | ME |
| 00. | VTU) | 2020-21 | 1,12 |
| 69. | Recycling of plastic waste by shredding process | 2020-21 | ME |
| 70. | Advanced Car Jack controlled by Wireless system (Sponsored By KSCST) | 2020-21 | ME |
| 71. | Investigation of Mechanical properties of Natural and hybrid composite | | |
| | material Using GP Resin (Sponsored By KSCST) | 2020-21 | ME |
| 72. | Solar vehicle for Agriculture aspects | 2020-21 | ME |
| 73. | Mechanical sanitizer sprayer pump | 2020-21 | ME |
| 74. | Automated household sewage treatment plant (Sponsored By VTU) | 2020-21 | ME |
| 75. | Multipurpose agro machine (Sponsored By KSCST) | 2020-21 | ME |
| 76. | Fabrication of wireless industrial waste sorting system based on magnetic | | ME |
| | and nonmagnetic, size and color. (Sponsored By KSCST) | 2020-21 | |
| 77. | Design and Fabrication of IOT based river cleaning machine | 2020-21 | ME |
| 78. | Effect of adding Nano grapheme oxide with N-butenol-Tallow oil methyl | | ME |
| | ester on diesel engine performance and emissions (Sponsored By KSCST) | 2020-21 | |
| | Nidasoshi-501 236 Tag: Hukkari Dist: Balagayi Karnataka India | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| 79. | Advanced Mixed Mode Solar Cabinet Dryer (Sponsored By KSCST) | 2021-22 | ME |
|------|--|---------|------|
| 80. | Performance And Emission Characteristics Of | | ME |
| | CRDI Diesel Engine With EGR And JFSO Bio-Diesel (Sponsored By | 2021-22 | |
| | KSCST) | | |
| 81. | Solar Powered Wireless Controlled Agriculture Spray Robot | 2021-22 | ME |
| 82. | Self Driving Water Cleaning Machine (Sponsored By VTU) | 2021-22 | ME |
| 83. | Fabrication of Prototype Model of Smart Car with Accident Detection and | 2021 22 | ME |
| | Prevention | 2021-22 | ME |
| 84. | Automatic Hand Break Apply for Vehicles with Inteligence sence of park | 2021.22 | ME |
| | and Ignition on system | 2021-22 | |
| 85. | Soyabean Harvesting Machine (Sponsored By KSCST) | 2021-22 | ME |
| 86. | Animal fat (tallow) as fuel for stationary internal combustion engines | 2021-22 | ME |
| 87. | A Comprehensive Study On Feasibility Of Algae Oil Methyl Ester | | |
| | (AOME) As A Biodiesel With Graphene Oxide | 2021-22 | ME |
| | As An Additive In Ci Engine Performance. (Sponsored By KSCST) | | |
| 88. | Design, Analysis And Fabrication Of 360° Turning Vehicle | 2021-22 | ME |
| 89. | Android Controlled Rover | 2021-22 | ME |
| 90. | Production And Purification Of Liquid Fuel From Household Plastic | 2021-22 | ME |
| | Waste For CI Engine | 2021-22 | |
| 91. | prototype of voice controlled smart hospital bed with patient health | 2021.22 | ME |
| | monitoring system (Sponsored By KSCST & VTU) | 2021-22 | ME |
| 92. | Effortless Lifter And Mover For Paralysis Patients | 2021-22 | ME |
| 93. | Smart Human Following Trolley | 2021-22 | ME |
| 94. | Prototype of pneumatic zero emissions vehicle | 2021-22 | ME |
| 95. | Eco Friendly Advanced Community Solar Dryer (Sponsored By KSCST) | 2022-23 | ME |
| 96. | Influence of Injection Pressure & Animal Waste Used as a Substitute Fuel | 2022-23 | ME |
| | for Internal Combustion Engines | 2022-23 | |
| 97. | Effect of Algae Biodiesel Blends with Nono fluid Additives on CRDI | 2022-23 | ME |
| | Engine | 2022-23 | IVIL |
| 98. | Experimental Investigation on shot peening process on Aluminum Alloy | 2022-23 | ME |
| | (Sponsored By KSCST) | 2022-23 | |
| 99. | Soyabean Harvesting Machine | 2022-23 | ME |
| 100. | Fiber Extraction from Banana Stem (Sponsored By KSCST) | 2022-23 | ME |
| 101. | Conventional Portable Bore-Well Lifter | 2022-23 | ME |
| 102. | LAPE Control Robot | 2020-21 | ME |
| 103. | Solar Mobile Charger | 2020-21 | ME |
| 104. | Automatic Lighting Using Arduino And PIR Sensor | 2020-21 | ME |
| 105. | Automatic Lighting Using Arduino And PIR Sensor | 2020-21 | ME |
| 106. | LPG Leakage Detector Using Arduino | 2020-21 | ME |
| 107. | Fire Detection System | 2020-21 | ME |
| 108. | Water Level Indicator | 2020-21 | ME |
| 109. | Hydraulic Robotic Arm | 2020-21 | ME |
| 110. | Smart Dustbin | 2020-21 | ME |
| 111. | Moisture Detection In Soil Using Arduino | 2020-21 | ME |
| 112. | Motion Detection Sensor | 2020-21 | ME |
| 113. | Android Control Rower | 2020-21 | ME |

231 (J) 378

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| | • | • | |
|------|---|---------|-----|
| 114. | Touchless Door Bell | 2020-21 | ME |
| 115. | Clap Switch Based Light Control Pcb Circuit | 2020-21 | ME |
| 116. | Power generation using rack & pinion | 2021-22 | ME |
| 117. | Solar power bank with wireless charging | 2021-22 | ME |
| 118. | Automated Drian cleaner | 2021-22 | ME |
| 119. | Hand operated multi seeds sowing machine | 2021-22 | ME |
| 120. | Automatic Foot cleaning Machine in public Places | 2021-22 | ME |
| 121. | Automatic irrigation system using Arduino | 2021-22 | ME |
| 122. | Solar rover | 2021-22 | ME |
| 123. | Solar sprayer | 2021-22 | ME |
| 124. | Archimedes Screw Generator | 2022-23 | ME |
| 125. | Biomass Briquetting Machine | 2022-23 | ME |
| 126. | Compressed Air Generator Using Vehicle Suspension | 2022-23 | ME |
| 127. | Regenerative Braking System | 2022-23 | ME |
| 128. | Power Generation from Seesaw Mechanism | 2022-23 | ME |
| 129. | Manual Floor Cleaning Machine | 2022-23 | ME |
| 130. | Mini Conveyor Using Geneva Mechanism | 2022-23 | ME |
| 131. | Crash Detection using Data on VANETS | 2022-23 | ECE |
| 132. | Smart Integrated wire/Wireless system for electric vehicles using IOT & | 2022-23 | ECE |
| | Solar Energy. | 2022-23 | |
| 133. | Intelligent all Terrain IOT Robotic Vehicle for Disaster Management and | 2022-23 | ECE |
| | Rescue. | 2022-23 | |
| 134. | An Artificial Intelligence based user friendly two way sign language | 2022-23 | ECE |
| | translator for Deaf and Dump people of rural India. | 2022 25 | |
| 135. | JALARAKSHAK-IOT based solar powered remote controlled Aqua waste | 2022-23 | ECE |
| | collector, Monitoring & Treatment System | | |
| 136. | Innovative approach to prevent illegal smuggling in forest areas using | 2022-23 | ECE |
| 10= | Machine Learning. | | |
| 137. | LORA based Frame work for smart Cities. | 2022-23 | ECE |
| 138. | Advanced Military Warfield Robot with night vision and AI based | 2022-23 | ECE |
| 120 | automated target shooting. | | EGE |
| 139. | JALARAKSHAK-IOT based solar powered remote controlled Aqua waste | 2022-23 | ECE |
| 1.40 | collector, Monitoring & Treatment System | | ECE |
| 140. | Wireless Notice Board | 2022-23 | ECE |
| 141. | Laser Security Alaram | 2022-23 | ECE |
| 142. | Missile Defence System | 2022-23 | ECE |
| 143. | Anti-sleep alarm for drivers | 2022-23 | ECE |
| 144. | Chat GPT AI Brain | 2022-23 | ECE |
| 145. | Detection of Decomposing of Commercial Vegetables | 2022-23 | ECE |
| 146. | Solar Tracking System | 2022-23 | ECE |
| 147. | IOT Based Water Level Monitoring System | 2022-23 | ECE |
| | | | |

100 S

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| | <u> </u> | ' | · ' |
|------|---|---------|-----|
| 148. | Smart Shoes | 2022-23 | ECE |
| 149. | Hermi Composte Process: Various Parameters Monitoring System | 2022-23 | ECE |
| 150. | Automatic Water System in agriculture | 2022-23 | ECE |
| 151. | Alcohol Sensor based Vehicle Ignition Control system | 2021-22 | ECE |
| 152. | Smart Wearable Device for Women Safety using IOT | 2021-22 | ECE |
| 153. | Accident Detection and Smart Ambulance Management System. | 2021-22 | ECE |
| 154. | Deep Learning Based Approach for Automatic Enforcement of Traffic Rules | 2021-22 | ECE |
| 155. | AI-Based Automated Extraction of Entities, Entity Categories & Sentiments on Covid-19 Situation. | 2021-22 | ECE |
| 156. | IOT Based Virtual Doctor Robot for Non-Contact Treatment of Patients and Remote Medication. | 2021-22 | ECE |
| 157. | Autonomous Solar Powered Multipurpose Robot for Beach Cleaning, Sweeping and Sanitization –A Swachaa Bharat Initiative | 2021-22 | ECE |
| 158. | Environment Friendly Reverse Vending Machine for Rural India. | 2021-22 | ECE |
| 159. | Saura Chula, Solar Powered GSM Based Multipurpose Wireless Smart Cooking Device. | 2021-22 | ECE |
| 160. | Smart BUS Alert System for EASY Navigation for Blind People. | 2021-22 | ECE |
| 161. | IOT Based Energy Meter with Ant-Tampering System and Theft Detection | 2021-22 | ECE |
| 162. | Smart agriculture monitoring system | 2021-22 | ECE |
| 163. | Smart appliance control using Arduino | 2021-22 | ECE |
| 164. | Advanced footstep power generator using piezoelectric sensor | 2021-22 | ECE |
| 165. | Automatic room temperature controller system using Arduino | 2021-22 | ECE |
| 166. | Fire safety management system | 2021-22 | ECE |
| 167. | Arduino based moving message display on LCD | 2021-22 | ECE |
| 168. | Automated social distance gate with non-contact body temperature monitoring using Arduino UNO | 2021-22 | ECE |
| 169. | IOT based air pollution monitoring system | 2021-22 | ECE |
| 170. | Smart dustbin using Arduino | 2021-22 | ECE |
| 171. | Digital Entrance monitoring system. | 2020-21 | ECE |
| 172. | Efficient Industry Automation with safety security and monitoring the process through IOT | 2020-21 | ECE |
| 173. | Smart waste segregation and clearance system using Integrated mobile robotic system. | 2020-21 | ECE |
| 174. | IOT based humanoid robots to help doctors in COVID-19. | 2020-21 | ECE |
| 175. | Design and development of internet enabled consumer energy meter for error free environment. | 2020-21 | ECE |
| 176. | CORONASECURE The COVID -19 health band for rural India | 2020-21 | ECE |
| 177. | Hydroponic crop cultivation with automatic controlling and monitoring | 2020-21 | ECE |
| | through IOT | 2020 21 | |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| | activity tracking system over cloud | | |
|--------------|---|---------|------------|
| 179. | Early detection of COVID -19 from chest CT Images using deep learning networks | 2020-21 | ECE |
| 180. | Design and development of voice actuated hospital bed for patient care | 2020-21 | ECE |
| 181. | Village water Quality and air pollution Monitoring System. | 2019-20 | ECE |
| 182. | Development of hybrid power generation model using rain water, solar and wind | 2019-20 | ECE |
| 183. | Innovative wireless charging station for electric vehicles using hybrid power generated on highways | 2019-20 | ECE |
| 184. | Smart Driver Distracted Alert System using Deep learning on Demand WHATAPP Notification | 2019-20 | ECE |
| 185. | Smart floor cleaning robot using Android APP. | 2019-20 | ECE |
| 186. | Gesture Recognition using sensors for physically disabled patients. | 2019-20 | ECE |
| 187. | Solar power based multipurpose smart agricultural robot | 2019-20 | ECE |
| 188. | Smart surveillance system for Automatic detection of motor cyclist's without helmet. | 2019-20 | ECE |
| 189. | Smart and safe child rescue system from bore well | 2019-20 | ECE |
| 190. | Wireless Black Box for Cars | 2019-20 | ECE |
| 191. | Fire Fighting Robot Vehicle. | 2019-20 | ECE |
| 192. | LDR based electronic eye security system | 2019-20 | ECE |
| 193. | Transistor polarity checker | 2019-20 | ECE |
| 194. | RF based wireless remote using Rx-Tx modules (434MHz) | 2019-20 | ECE |
| 195. | Testing of 555 timer and 741 Op-Amp ICs | 2019-20 | ECE |
| 196. | Automatic light sensor | 2019-20 | ECE |
| 197. | Automatic plant irrigation using IC555 | 2019-20 | ECE |
| 198. | Smoke detector alarm circuit | 2019-20 | ECE |
| 199. | Security alarm | 2019-20 | ECE |
| 200. | IR proximity sensor | 2019-20 | ECE |
| 201. | Clamp switch | 2019-20 | ECE |
| 202. 203. | Mini cell-phone detector | 2019-20 | ECE ECE |
| | VLSI Implementation of 8 Bit Microprocessor | 2018-19 | |
| 204. | Bandwidth Enhancement Technique through Air Couple MSA | 2018-19 | ECE |
| 205. | Agricultural Robot | 2018-19 | ECE |
| 206. | Smart ration card implementation using ordino | 2018-19 | ECE |
| 207. | Hi-Tech ATM security system | 2018-19 | ECE |
| 208. | Solar operated smart recycling bin. | 2018-19 | ECE |
| 209. | Self operated bus ticketing system for travelled range using smart card and GSM. | 2018-19 | ECE |
| 210. | Implementation Of data encryption standard algorithm using very log. | 2018-19 | ECE |
| 211. | Planar Inverted F Antenna for RF Communication | 2018-19 | ECE |
| 212. | Design And Development of Square Fractal Antenna for Multiband | 2018-19 | ECE |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| | Wireless Application | | |
|------|--|--------------------|------------|
| 213. | IOT Based Healthcare Monitoring System | 2018-19 | ECE |
| 214. | E-cane smart application to assist farmer's pre and post sugarcane cultivation. | 2018-19 | ECE |
| 215. | Solar System Based Automatic Water Level Monitoring and Controlling for Multiple Tanks Using Arduino | 2018-19 | ECE |
| 216. | A 4-Bit New Multiplexer Based Encoder for Flash ADC | 2018-19 | ECE |
| 217. | Design of Pipe Lined RISC MIPS Processor Using VLSI Technology | 2018-19 | ECE |
| 218. | Sensor Based Automatic Control of Railway Gates | 2018-19 | ECE |
| 219. | Green house monitoring and automation system using GSM. | 2018-19 | ECE |
| 220. | Optimum Energy Management System | 2018-19 | ECE |
| 221. | Warfield Spying Robot with Night Vision Wireless Camera by Android Applications | 2018-19 | ECE |
| 222. | Automatic Zone Detector for Accident Avoidance | 2018-19 | ECE |
| 223. | Fire and Gas accident avoider system | 2018-19 | ECE |
| 224. | Design and Construction of Low Speed PMAC Generator with Stationary Bike | 2018-19 | EEE |
| 225. | Power-Electronics Based Energy Management System with Storage | 2018-19 | EEE |
| 226. | Industrial Power Control by Integral Cycle Switching without Generating Harmonics | 2018-19 | EEE |
| 227. | Diagnosis of Transformer Using Artificial Neural Network | 2018-19 | EEE |
| 228. | The Solid-State on Load Tap-Changer for Transformer Using Microcontroller and Controlling by Internet of Things [IoT] | 2018-19 | EEE |
| 229. | Automatic Synchronization of Alternator with Infinite Bus Bar Using Microcontroller | 2018-19 | EEE |
| 230. | Design & Implementation of Programmable 64-2048 Point FFT/IFFT Processor for Wireless Communication | 2018-19 | EEE |
| 231. | Advanced Hybrid Electric Vehicle | 2018-19 | EEE |
| 232. | Prepaid Energy Meter using Arduino and GSM | 2018-19 | EEE |
| 233. | Agricultural Pest Control by using Electronic Method | 2018-19 | EEE |
| 234. | Wireless Electronic Notice Board Solar Hybrid Inverter | 2018-19 2018-19 | EEE EEE |
| 235. | Women's Safety Device with GPS Tracking and Alerts | 2018-19 | EEE |
| 237. | Voice Controlled Home Appliances Using Bluetooth on Android Mobile | 2018-19 | EEE |
| 238. | Power Generation using Multi Axis Multi Rotor Multi Generator Wind Mill | 2018-19 | EEE |
| 239. | Design & Development of Lake Cleaning Machine Using Wireless Protocol & Sensors | 2019-20 | EEE |
| 240. | Hybrid Battery Charging Station For Electrical Vehicles | 2019-20 | EEE |
| 241. | Advanced Farming Technology by using Renewable Source | 2019-20 | EEE |
| 242. | Chopper Fed Speed Control of DC Motor Using Pi Controller | 2019-20 | EEE |
| 243. | Effective Underground Cable Fault Detection With Location | 2019-20 | EEE |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| 244. | Design & Implementation of Single Phase to Three Phase Converter for Motor Control | 2019-20 | EEE |
|------|--|---------|-----|
| 245. | Design and Implementation of Control Techniques for Battery Management System in PHEV | 2019-20 | EEE |
| 246. | Voice Controlled Wheelchair | 2019-20 | EEE |
| 247. | Protection of Three Phase Induction Motor using PIC Microcontroller | 2019-20 | EEE |
| 248. | Smart Village using Arduino Uno | 2019-20 | EEE |
| 249. | Design & Implementation of Intelligent Vehicle Safety System | 2019-20 | EEE |
| 250. | Design and Implementation of Quasi Z Source Inverter for Electric Vehicle with Regenerative Braking | 2019-20 | EEE |
| 251. | Design & Implementation of Automatic Power Factor Correction for Single Phase Domestic Loads by Aurduino | 2019-20 | EEE |
| 252. | Simulation and Analysis of Faults in Power Distribution Systems | 2019-20 | EEE |
| 253. | An Expert System Based Automatic Fault Detector & Protection System | 2019-20 | EEE |
| 254. | Design and Implementation of Solar Powered Tricycle for Specially abled Person | 2020-21 | EEE |
| 255. | Brain Cancer Detection using Artificial Intelligence | 2020-21 | EEE |
| 256. | Solar Powered, Remote Controlled, Multifunctional Robot for Agricultural Applications | 2020-21 | EEE |
| 257. | A Novel Efficient PMU data compression technique for early event detection | 2020-21 | EEE |
| 258. | Modeling, Simulation and Analysis of BLDC Motor | 2020-21 | EEE |
| 259. | MPPT Based Performance Improvement of Wind Turbine System | 2020-21 | EEE |
| 260. | Modeling, Simulation and Analyzation of Hybrid Power System | 2020-21 | EEE |
| 261. | Design and Implementation of Advanced Plant Leaf Disease Detection and | | EEE |
| | Climatic Parameters Monitoring of Plants | 2020-21 | |
| 262. | Modeling, Simulation and Analyzation of Hybrid Power System | 2020-21 | EEE |
| 263. | Real Time Protection of Three Phase Induction Motor | 2021-22 | EEE |
| 264. | Simulation & Analysis of Distribution Network for Optimal Placement & Sizing of Distributed Generators | 2021-22 | EEE |
| 265. | Implementation of Advanced Battery Charging System for Electric Vehicles | 2021-22 | EEE |
| 266. | Design & Implementation of Controller using Fuzzy Logic for Grid Connected Solar PV System | 2021-22 | EEE |
| 267. | Predicting Cascading Failures in Power Grids using Machine Learning Algorithms | 2021-22 | EEE |
| 268. | A Bidirectional Power Converter for Electric Vehicles in V2G Systems | 2021-22 | EEE |
| 269. | FARMINARM- IoT Enabled Smart Unique Solution in Vertical Farming with real time Monitoring | 2021-22 | EEE |
| 270. | Solar Powered Automatic Lawn Cutting Machine | 2021-22 | EEE |
| 271. | T-Box Wind Power Generator | 2021-22 | EEE |
| 272. | Design and implementation of hybrid powered multifunction Bicycle | 2022-23 | EEE |
| 273. | Smart self driving electrical vehicle using AI | 2022-23 | EEE |
| 274. | Design of Arduino based battery operated vehicle for agriculture | 2022-23 | EEE |
| | Nideseshi 504 220 Tear Hukkari Diat Belegari Karrataka India | | |

EST (3) Jan

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| | applications | | |
|------|---|---------|-----|
| 275. | An intelligent lightning prediction and protection system using ANN | 2022-23 | EEE |
| 276. | IOT based vehicle accident prevention and detection system | 2022-23 | EEE |
| 277. | Network reconfiguration for loss reduction and improvement of voltage profile in electrical distribution system | 2022-23 | EEE |
| 278. | Wireless AC Current detector. | 2020-21 | EEE |
| 279. | Wireless Power Transmission. | 2020-21 | EEE |
| 280. | Electric Hand Sanitizer Machine. | 2020-21 | EEE |
| 281. | Water Flow Controller using IR Autoswitch. | 2020-21 | EEE |
| 282. | Distance Measurement using Ultrasonic Sensor. | 2020-21 | EEE |
| 283. | Automatic Street Light Control using LDR. | 2020-21 | EEE |
| 284. | Police LED Flasher Light. | 2020-21 | EEE |
| 285. | Over Current and short circuit protection using NE555 timer IC. | 2020-21 | EEE |
| 286. | Antibag Snatching Alarm | 2020-21 | EEE |
| 287. | Traffic Light Controller using 555timer & 4017 IC | 2020-21 | EEE |
| 288. | Digital Voltmeter | 2020-21 | EEE |
| 289. | DC Motor Speed Controller using MOSFET | 2020-21 | EEE |
| 290. | Design & Implementation of Solar Powered Display | 2021-22 | EEE |
| 291. | Buck-boost Converter | 2021-22 | EEE |
| 292. | Design & Implementation of Voltage Multiplier | 2021-22 | EEE |
| 293. | Automatic Solar Tracking System | 2021-22 | EEE |
| 294. | Design of Inverter using 555 timer IC | 2021-22 | EEE |
| 295. | Moving message display on LCD | 2021-22 | EEE |
| 296. | Battery charging using SCR. | 2022-23 | EEE |
| 297. | Design and implementation of Fuse cum Power failure Indicator. | 2022-23 | EEE |
| 298. | Alcohol sensing and Engine control system for safe driving with Arduino Uno. | 2022-23 | EEE |
| 299. | Design and implementation of automatic Voltage Stabilizer. | 2022-23 | EEE |
| 300. | Implementation of Power Supply with Auto Switching. | 2022-23 | EEE |
| 301. | Implementation of dual axis solar tracking system with weather sensor. | 2022-23 | EEE |
| 302. | Intelligent Diabetes Disease Prediction using Data Mining-An Innovative Approach towards Health Monitoring System | 2018-19 | CSE |
| 303. | IoT Based Health Monitoring System Using Android App | 2018-19 | CSE |
| 304. | Blind Aid Stick | 2018-19 | CSE |
| 305. | Online Banking Authentication System Using Mobile-OTP with QR-code | 2018-19 | CSE |
| 306. | Home Automation Using IoT | 2018-19 | CSE |
| 307. | Student Management System and College Android Application | 2018-19 | CSE |
| 308. | Implementation of Child Tracking System Based on Android Terminals | 2018-19 | CSE |
| 309. | Remote Sensing and Controlling of Greenhouse Agriculture Parameters on IoT | 2018-19 | CSE |
| 310. | Event Management System | 2018-19 | CSE |
| 311. | An Intelligent Voice-Based eMarket Place for Visually Impaired People | 2018-19 | CSE |
| 312. | Smart LPG gas Leakage Detection Monitoring and Automatic Online | 2018-19 | CSE |

EST OF STREET

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| | Booking | | |
|------|--|---------|-----|
| 313. | On-line Insurance Claim Management System | 2018-19 | CSE |
| 314. | Smart Agriculture | 2019-20 | CSE |
| 315. | Monitoring effect of Air Pollution on Agriculture Using IOT | 2019-20 | CSE |
| 316. | Enhancing Security In Wireless Sensor Network Using Cryptography | 2019-20 | CSE |
| | Techniques And To Increase The Network Life Time | | |
| 317. | Raspberry Pi On Vehicle Anti-Theft And Alarm System Using Face | 2019-20 | CSE |
| | Recognition | | |
| 318. | Alcohol and Heart Attack Detection Sensor Monitoring in Smart | 2019-20 | CSE |
| | Transportation System using Internet of Things | | |
| 319. | IOT Based System for Traffic Rule Enforcement | 2019-20 | CSE |
| 320. | Early Flood Detection and Avoidance System | 2019-20 | CSE |
| 321. | Health Alert and Medicine Remainder Using Internet of Things | 2019-20 | CSE |
| 322. | Smart Wheelchair Using Raspberry-Pi | 2019-20 | CSE |
| 323. | Home Security Based Door Monitoring System | 2019-20 | CSE |
| 324. | Discovering Public Opinions by Performing Sentimental Analysis on Real | 2019-20 | CSE |
| | Time Twitter Data | | |
| 325. | Water Level Monitoring System Using IOT | 2019-20 | CSE |
| 326. | Emergency Alert And Women Safety Android App | 2019-20 | CSE |
| 327. | Classification Of Cancerous Profiles Using Machine Learning. | 2020-21 | CSE |
| 328. | Smart glasses for blind to assist in day-to-day life using computer Vision | 2020-21 | CSE |
| | and MachineLearning | | |
| 329. | A Vehicle theft detection and alert system using Geofence | 2020-21 | CSE |
| 330. | Deaf Sign Interpreter Service | 2020-21 | CSE |
| 331. | Disease detection and pesticides suggestion of fruits. | 2020-21 | CSE |
| 332. | Secure big data storage &sharing scheme for cloud tenants | 2020-21 | CSE |
| 333. | Real-time prediction of the outbreak of pandemic events from social media | 2020-21 | CSE |
| | data | | |
| 334. | Novel Approach to Plant Leaf Disease Detection based on Machine | 2020-21 | CSE |
| | Learning | | |
| 335. | Traffic Finger printing Attacks on Internet of Things Using Machine | 2020-21 | CSE |
| | Learning | | |
| 336. | Accurate Image Super-Resolution Using Deep Convolutional Networks. | 2020-21 | CSE |
| 337. | Automatic speed control of vehicles at restricted areas using sensors, | 2021-22 | CSE |
| | cameras, and over speed detection | | |
| 338. | Fake News detection using Machine Learning | 2021-22 | CSE |
| 339. | Theft detection using Machine Learning | 2021-22 | CSE |
| 340. | Drowsiness Detection of driver using Machine Learning | 2021-22 | CSE |
| 341. | Twitter data analysis and visualizations | 2021-22 | CSE |
| 342. | Applications for tracking Real time Bus Timings and Routes using IOT and Geo-fencing and Sensor fusion | 2021-22 | CSE |
| 343. | Smart Shiksha - Deep Learning Based hand gesture recognition for on- | 2021-22 | CSE |
| | screen writing and streaming for online classes | | |
| 344. | Depression Detection in social media using ML | 2021-22 | CSE |
| 345. | Eye gesture-based wheelchair control for physically disabled using | 2021-22 | CSE |
| | Raspberry Pi with critical monitoring alert | | |
| | Nidecaki 504 226 Tan Hukkari Diat Balancui Kanataka India | | |



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE &ECE

| IQAC | |
|----------------|---|
| Academics | |
| Student Centri | c |
| Methods | |
| Project Works | 5 |

| 346. | Heart Disease Prediction | 2021-22 | CSE |
|------|---|---------|-----|
| 347. | Biometric attendance system | 2021-22 | CSE |
| 348. | Chat-Bot python project for college information | 2021-22 | CSE |
| 349. | Intelligent Multipurpose Bomb Detection And Disposal Robot for Defense Applications using AI and sensor fusion | | CSE |
| 350. | Smart nose Detection of Food Decay using AIML | 2022-23 | CSE |
| 351. | Smart Drip Irrigation System for Multicrop Irrigation using IOT and Solar Energy | 2022-23 | CSE |
| 352. | Smart Eye Typing application using eye gaze and virtual keyboard | 2022-23 | CSE |
| 353. | Smart AI based video surveillance for weapon detection and suspicious activity detection | 2022-23 | CSE |
| 354. | Blood cell counting in smear images using machine learning | 2022-23 | CSE |
| 355. | Body Movement and heart beat monitoring of coma patients using IOT | 2022-23 | CSE |
| 356. | Smart face Recognition Based Attendance System Using Deep Learning With Automated Report Generation and SMS notification. | 2022-23 | CSE |
| 357. | Chronic Kidney Disease prediction and Diet Plan recommendation using Machine Learning | 2022-23 | CSE |
| 358. | Bone Fracture Detection And Classification In X-ray Images using Machine Learning | 2022-23 | CSE |
| 359. | Smart Car with predictive maintenance and OTP Key Sharing System Using IOT | 2022-23 | CSE |
| 360. | Wildfire Detection from Satellite Images Using Ensemble Deep Neural Networks. | 2022-23 | CSE |
| 361. | Detection and Analysis of Stress using Machine Learning. | 2022-23 | CSE |

Dr.S.N.Topannavar
IQAC Coordinator
IQAC Coordinator
Hirasugar Institute of Technology
Nidasoshi-591236

Nidasoshi Pin.591236

Dr.S. Ø. Kamate

Principal
PRINCIPAL

Hirasugar Institute of Technology
Nidasoshi-591 236

Tato Do see

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Student Centric
Methods
Internships, Field
work & Visits

List of Internships (Industry/Social/Innovation/Entrepreneurship) undergone, Field works completed and Industry Visits by the studentsduring the AYs:2018-19 to Till Date

Institute is permanently affiliated to the Visvesvaraya Technological University, Belgaum. In view of NEP-2020 based and industry driven revised curriculum of the affiliated university, the institute has facilitated to students to acquire practical experiences through the internships, field works and visits. The experience gained by the students are evaluated by the internal/external membersthrough proper rubrics and the skills acquired are mapped with POs and PSOs and attainments are calculated as per the university guidelines. The following are the internships undergone, field works and visits completed by the students during the last 5 years.

| S.N. | Organization/Resource Person | Academic | Dept. | No. of |
|------|---|----------|-------|----------|
| | | Year | | students |
| 1. | aMSa Embedded Solutions, Hubbali | 2018-19 | CSE | 18 |
| 2. | Tech Fortune, Bengaluru | 2018-19 | CSE | 22 |
| 3. | Stavyab Technologies, Bengaluru | 2018-19 | CSE | 2 |
| 4. | Evolet Technologies, Bengaluru | 2018-19 | CSE | 3 |
| 5. | Simplified Future System, Belagavi | 2018-19 | CSE | 2 |
| 6. | Workflow Software, Sankeshwar | 2018-19 | CSE | 1 |
| 7. | Electrosal Hi Tech Pvt. Ltd., Nipani | 2018-19 | ECE | 10 |
| 8. | Technopilia, Sangli | 2018-19 | ECE | 1 |
| 9. | Knowx Innovations (p) Ltd. Bangalore. | 2018-19 | ECE | 10 |
| 10. | Sandbox Startups, Hubballi. | 2018-19 | ECE | 12 |
| 11. | ATSSL Belagavi. | 2018-19 | ECE | 5 |
| 12. | Drona Automation Pvt. Ltd., Bangalore. | 2018-19 | ECE | 1 |
| 13. | AMSA Embedded Solutions Hubbali. | 2018-19 | ECE | 2 |
| 14. | AEQUS (AeroStucturesManufcturing India Pvt. Ltd. | 2018-19 | EEE | 1 |
| | Hattargi Belagavi. | | | |
| 15. | ITI Bangalore. | 2018-19 | EEE | 1 |
| 16. | KPTCL, Belagavi | 2018-19 | EEE | 10 |
| 17. | PATCO Transformer Industries, Nipani | 2018-19 | EEE | 18 |
| 18. | HESCOM, Vijaypura | 2018-19 | EEE | 5 |
| 19. | Shantala Industrial Training & Research Centre, Hubli | 2018-19 | EEE | 14 |
| 20. | Ugar Sugar Works Ltd, Ugar Khurd | 2018-19 | EEE | 1 |
| 21. | Shreem Electrical, Maharashtra | 2018-19 | EEE | 1 |
| 22. | Precimeasure controls, Dobaspete, Bangalore | 2018-19 | EEE | 1 |
| 23. | Abhishek Alloys Pvt Ltd, Belagavi | 2018-19 | ME | 8 |
| 24. | AccumechPrecision,Bhosari Pune | 2018-19 | ME | 5 |
| 25. | Aditya Birla Hindalco, Belagavi | 2018-19 | ME | 1 |
| 26. | AKP Foundries, Udyambag Belagavi | 2018-19 | ME | 2 |
| 27. | A-TECH Engg,Shiroli Kolhapur | 2018-19 | ME | 6 |



S J P N Trust's Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Internships, Field
work & Visits

IQAC

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 28. Bengaluru Metroploitan Transport Corporation, Bengaluru 2018-19 ME 29. E.I.D Parry(INDIA) Ltd,Ramdurg,Dist:Belagavi 2018-19 ME 30. The GhataprabhaSahakariSakkareKarkaneNiyamit Gokak 2018-19 ME 31. Hermes Distillery Pvt Ltd,Belagavi 2018-19 ME 32. Indian Air Filters Company,Mulund(w)Mumbai 2018-19 ME 33. ITW Global Automotive,Shirur Pune 2018-19 ME 34. Jagadeesh Irons & Steels Pvt Ltd,Miraj 2018-19 ME 35. JayhindEngineering,Udyambag Belagavi 2018-19 ME 36. Jinabakul Forge Pvt Ltd,Unit-4,Belagavi 2018-19 ME 37. Krishna SahakariSakkareKarkaneNiyamit,Athani 2018-19 ME 38. M/S Vimal Enterprises,Belagavi 2018-19 ME 39. NeolEngineers,JawaharNagar,Ichalkaranji 2018-19 ME 40. Nirani Sugars Ltd,Mudhol,Dist:Bagalkot 2018-19 ME 41. PARAS Enterprises,Belagavi 2018-19 ME 42. PHOENIX Products,Udyambag Belagavi 2018-19 ME 43. SavekarAutombiles,Kolhapur 2018-19 ME 44. Shanthala Industrial Consultant,Training&Research 2018-19 ME 45. Shree Datta Industries,ShiroliMIDC,Kolhapur 2018-19 ME 46. Shri 2018-19 ME 47. Sound Castings Pvt Ltd,MIDC,Shiroli Kolhapur 2018-19 ME | 1 2 2 8 2 8 2 3 3 5 2 3 5 4 2 2 |
|---|--|
| 30. The GhataprabhaSahakariSakkareKarkaneNiyamit Gokak 31. Hermes Distillery Pvt Ltd,Belagavi 32. Indian Air Filters Company,Mulund(w)Mumbai 32. Indian Air Filters Company,Mulund(w)Mumbai 33. ITW Global Automotive,Shirur Pune 34. Jagadeesh Irons & Steels Pvt Ltd,Miraj 35. JayhindEngineering,Udyambag Belagavi 36. Jinabakul Forge Pvt Ltd,Unit-4,Belagavi 37. Krishna SahakariSakkareKarkaneNiyamit,Athani 38. M/S Vimal Enterprises,Belagavi 39. NeolEngineers,JawaharNagar,Ichalkaranji 30. Nirani Sugars Ltd,Mudhol,Dist:Bagalkot 31. PARAS Enterprises,Belagavi 32. D18-19 34. PARAS Enterprises,Belagavi 35. ME 36. Jinabakul Forge Pvt Ltd,Unit-4,Belagavi 36. Jinabakul Forge Pvt Ltd,Unit-4,Belagavi 37. Krishna SahakariSakkareKarkaneNiyamit,Athani 38. M/S Vimal Enterprises,Belagavi 39. NeolEngineers,JawaharNagar,Ichalkaranji 39. NeolEngineers,JawaharNagar,Ichalkaranji 40. Nirani Sugars Ltd,Mudhol,Dist:Bagalkot 41. PARAS Enterprises,Belagavi 42. PHOENIX Products,Udyambag Belagavi 43. SavekarAutombiles,Kolhapur 44. Shanthala Industrial Consultant,Training&Research Centre,Hubli 45. Shree Datta Industries,ShiroliMIDC,Kolhapur 46. Shri HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar | 2 8 2 3 3 5 2 3 5 4 2 2 |
| 30. The GhataprabhaSahakariSakkareKarkaneNiyamit Gokak 31. Hermes Distillery Pvt Ltd,Belagavi 32. Indian Air Filters Company,Mulund(w)Mumbai 32. Indian Air Filters Company,Mulund(w)Mumbai 33. ITW Global Automotive,Shirur Pune 34. Jagadeesh Irons & Steels Pvt Ltd,Miraj 35. JayhindEngineering,Udyambag Belagavi 36. Jinabakul Forge Pvt Ltd,Unit-4,Belagavi 37. Krishna SahakariSakkareKarkaneNiyamit,Athani 38. M/S Vimal Enterprises,Belagavi 39. NeolEngineers,JawaharNagar,Ichalkaranji 40. Nirani Sugars Ltd,Mudhol,Dist:Bagalkot 41. PARAS Enterprises,Belagavi 42. PHOENIX Products,Udyambag Belagavi 43. SavekarAutombiles,Kolhapur 44. Shanthala Industrial Consultant,Training&Research Centre,Hubli 45. Shree Datta Industries,ShiroliMIDC,Kolhapur 46. Shri HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar | 2 8 2 3 3 5 2 3 5 4 2 2 1 |
| 32. Indian Air Filters Company,Mulund(w)Mumbai 33. ITW Global Automotive,Shirur Pune 34. Jagadeesh Irons & Steels Pvt Ltd,Miraj 35. JayhindEngineering,Udyambag Belagavi 36. Jinabakul Forge Pvt Ltd,Unit-4,Belagavi 37. Krishna SahakariSakkareKarkaneNiyamit,Athani 38. M/S Vimal Enterprises,Belagavi 39. NeolEngineers,JawaharNagar,Ichalkaranji 40. Nirani Sugars Ltd,Mudhol,Dist:Bagalkot 41. PARAS Enterprises,Belagavi 42. PHOENIX Products,Udyambag Belagavi 43. SavekarAutombiles,Kolhapur 44. Shanthala Industrial Consultant,Training&Research Centre,Hubli 45. Shree Datta Industries,ShiroliMIDC,Kolhapur 2018-19 ME 46. Shri HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar | 8 2 3 3 5 2 3 5 4 2 2 |
| 33. ITW Global Automotive, Shirur Pune 34. Jagadeesh Irons & Steels Pvt Ltd, Miraj 35. JayhindEngineering, Udyambag Belagavi 2018-19 ME 36. Jinabakul Forge Pvt Ltd, Unit-4, Belagavi 2018-19 ME 37. Krishna SahakariSakkareKarkaneNiyamit, Athani 2018-19 ME 38. M/S Vimal Enterprises, Belagavi 2018-19 ME 39. NeolEngineers, Jawahar Nagar, Ichalkaranji 2018-19 ME 40. Nirani Sugars Ltd, Mudhol, Dist: Bagalkot 41. PARAS Enterprises, Belagavi 42. PHOENIX Products, Udyambag Belagavi 43. Savekar Autombiles, Kolhapur 44. Shanthala Industrial Consultant, Training&Research Centre, Hubli 45. Shree Datta Industries, ShiroliMIDC, Kolhapur 2018-19 ME 46. Shri Hiranyakeshi Sahakari Sakkare Karkane Niyamit, Sankeshwar | 2 3 3 5 2 3 5 4 2 2 1 |
| 33. ITW Global Automotive, Shirur Pune 34. Jagadeesh Irons & Steels Pvt Ltd, Miraj 35. JayhindEngineering, Udyambag Belagavi 2018-19 ME 36. Jinabakul Forge Pvt Ltd, Unit-4, Belagavi 2018-19 ME 37. Krishna SahakariSakkareKarkaneNiyamit, Athani 2018-19 ME 38. M/S Vimal Enterprises, Belagavi 2018-19 ME 39. NeolEngineers, Jawahar Nagar, Ichalkaranji 2018-19 ME 40. Nirani Sugars Ltd, Mudhol, Dist: Bagalkot 41. PARAS Enterprises, Belagavi 42. PHOENIX Products, Udyambag Belagavi 43. Savekar Autombiles, Kolhapur 44. Shanthala Industrial Consultant, Training&Research Centre, Hubli 45. Shree Datta Industries, ShiroliMIDC, Kolhapur 2018-19 ME 46. Shri Hiranyakeshi Sahakari Sakkare Karkane Niyamit, Sankeshwar | 3 3 5 2 3 5 4 2 2 |
| 35. JayhindEngineering,Udyambag Belagavi 2018-19 ME 36. Jinabakul Forge Pvt Ltd,Unit-4,Belagavi 2018-19 ME 37. Krishna SahakariSakkareKarkaneNiyamit,Athani 2018-19 ME 38. M/S Vimal Enterprises,Belagavi 2018-19 ME 39. NeolEngineers,JawaharNagar,Ichalkaranji 2018-19 ME 40. Nirani Sugars Ltd,Mudhol,Dist:Bagalkot 2018-19 ME 41. PARAS Enterprises,Belagavi 2018-19 ME 42. PHOENIX Products,Udyambag Belagavi 2018-19 ME 43. SavekarAutombiles,Kolhapur 2018-19 ME 44. Shanthala Industrial Consultant,Training&Research Centre,Hubli ME 45. Shree Datta Industries,ShiroliMIDC,Kolhapur 2018-19 ME 46. Shri 2018-19 ME HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar | 3 3 5 2 3 5 4 2 2 |
| 36. Jinabakul Forge Pvt Ltd,Unit-4,Belagavi 37. Krishna SahakariSakkareKarkaneNiyamit,Athani 2018-19 ME 38. M/S Vimal Enterprises,Belagavi 2018-19 ME 39. NeolEngineers,JawaharNagar,Ichalkaranji 40. Nirani Sugars Ltd,Mudhol,Dist:Bagalkot 41. PARAS Enterprises,Belagavi 42. PHOENIX Products,Udyambag Belagavi 43. SavekarAutombiles,Kolhapur 44. Shanthala Industrial Consultant,Training&Research Centre,Hubli 45. Shree Datta Industries,ShiroliMIDC,Kolhapur 2018-19 ME 46. Shri HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar | 5 2 3 5 4 2 2 |
| 36. Jinabakul Forge Pvt Ltd, Unit-4, Belagavi 37. Krishna SahakariSakkareKarkaneNiyamit, Athani 2018-19 ME 38. M/S Vimal Enterprises, Belagavi 2018-19 ME 39. NeolEngineers, Jawahar Nagar, Ichalkaranji 2018-19 ME 40. Nirani Sugars Ltd, Mudhol, Dist: Bagalkot 41. PARAS Enterprises, Belagavi 42. PHOENIX Products, Udyambag Belagavi 43. Savekar Autombiles, Kolhapur 44. Shanthala Industrial Consultant, Training & Research Centre, Hubli 45. Shree Datta Industries, Shiroli MIDC, Kolhapur 46. Shri Hiranyakeshi Sahakari Sakkare Karkane Niyamit, Sankeshwar | 2 3 5 4 2 2 1 |
| 37.Krishna SahakariSakkareKarkaneNiyamit,Athani2018-19ME38.M/S Vimal Enterprises,Belagavi2018-19ME39.NeolEngineers,JawaharNagar,Ichalkaranji2018-19ME40.Nirani Sugars Ltd,Mudhol,Dist:Bagalkot2018-19ME41.PARAS Enterprises,Belagavi2018-19ME42.PHOENIX Products,Udyambag Belagavi2018-19ME43.SavekarAutombiles,Kolhapur2018-19ME44.Shanthala Industrial Consultant,Training&Research Centre,Hubli2018-19ME45.Shree Datta Industries,ShiroliMIDC,Kolhapur2018-19ME46.Shri HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar2018-19ME | 3 5 4 2 2 1 |
| 39. NeolEngineers, Jawahar Nagar, Ichalkaranji 2018-19 ME 40. Nirani Sugars Ltd, Mudhol, Dist: Bagalkot 2018-19 ME 41. PARAS Enterprises, Belagavi 2018-19 ME 42. PHOENIX Products, Udyambag Belagavi 2018-19 ME 43. Savekar Autombiles, Kolhapur 2018-19 ME 44. Shanthala Industrial Consultant, Training & Research Centre, Hubli 45. Shree Datta Industries, Shiroli MIDC, Kolhapur 2018-19 ME 46. Shri Hiranyakeshi Sahakari Sakkare Karkane Niyamit, Sankeshwar | 5 4 2 2 1 |
| 40.Nirani Sugars Ltd,Mudhol,Dist:Bagalkot2018-19ME41.PARAS Enterprises,Belagavi2018-19ME42.PHOENIX Products,Udyambag Belagavi2018-19ME43.SavekarAutombiles,Kolhapur2018-19ME44.Shanthala Industrial Consultant,Training&Research Centre,Hubli2018-19ME45.Shree Datta Industries,ShiroliMIDC,Kolhapur2018-19ME46.Shri HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar2018-19ME | 4 2 2 1 |
| 40. Nirani Sugars Ltd,Mudhol,Dist:Bagalkot 2018-19 41. PARAS Enterprises,Belagavi 2018-19 42. PHOENIX Products,Udyambag Belagavi 2018-19 43. SavekarAutombiles,Kolhapur 2018-19 44. Shanthala Industrial Consultant,Training&Research Centre,Hubli 45. Shree Datta Industries,ShiroliMIDC,Kolhapur 2018-19 ME 46. Shri HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar | 2 2 1 |
| 42.PHOENIX Products, Udyambag Belagavi2018-19ME43.Savekar Autombiles, Kolhapur2018-19ME44.Shanthala Industrial Consultant, Training & Research Centre, Hubli2018-19ME45.Shree Datta Industries, ShiroliMIDC, Kolhapur2018-19ME46.Shri Hiranyakeshi Sahakari Sakkare Karkane Niyamit, Sankeshwar2018-19ME | 1 |
| 43.SavekarAutombiles,Kolhapur2018-19ME44.Shanthala Industrial Consultant,Training&Research Centre,Hubli2018-19ME45.Shree Datta Industries,ShiroliMIDC,Kolhapur2018-19ME46.Shri HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar2018-19ME | 1 |
| 43.SavekarAutombiles,Kolhapur2018-19ME44.Shanthala Industrial Consultant,Training&Research Centre,Hubli2018-19ME45.Shree Datta Industries,ShiroliMIDC,Kolhapur2018-19ME46.Shri HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar2018-19ME | 1 |
| 44. Shanthala Industrial Consultant, Training & Research Centre, Hubli 45. Shree Datta Industries, ShiroliMIDC, Kolhapur 2018-19 ME 46. Shri Hiranyakeshi Sahakari Sakkare Karkane Niyamit, Sankeshwar | |
| 45. Shree Datta Industries, ShiroliMIDC, Kolhapur 2018-19 ME 46. Shri 2018-19 ME Hiranyakeshi Sahakari Sakkare Karkane Niyamit, Sankeshwar | . () |
| 46. Shri HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar 2018-19 ME | 8 |
| HiranyakeshiSahakariSakkareKarkaneNiyamit,Sankeshwar | 5 |
| | 22 |
| 47. Sound Castings Pvt Ltd,MIDC,Shiroli Kolhapur 2018-19 ME | 22 |
| | 8 |
| 48. Sunil Industries,MFG.AutoComponents,Kolhapur 2018-19 ME | 8 |
| 49. TATA Hitachi, Mummigatti, DHARWAD 2018-19 ME | 2 |
| 50. TATA Marcopolo, Mummigatti, DHARWAD 2018-19 ME | 1 |
| 51. Usha Enterprises, MIDC, Shiroli Kolhapur 2018-19 ME | 1 |
| 52. On Job-training Seminar on "Tips and Tricks to crack 2018-19 CSE | 76 |
| Campus Interview" Mr. Anil Kumar, Senior Software | |
| Engineer, Bengaluru | |
| 53. On Job-training Workshop on "Artificial Intelligence and 2018-19 CSE | 72 |
| Machine Learning" Mr. Murali Deshpande, Director, GRP | |
| Infokyam Ltd. Bengaluru | |
| 54. On Job-training Technical Talk on "Awareness on Latest 2018-19 CSE | 50 |
| Tools" Mr. Sagar K. and Mr. Sagar D., Android | |
| Developer, aSMa Embedded Solutions, Hubli | |
| | |
| 55. On Job-training Workshop on "Practical Hands on Internet 2018-19 CSE | 47 |
| 55. On Job-training Workshop on "Practical Hands on Internet of Things using Arduino" Mr. Vinayak D. Co-Founder, | 47 |
| 55. On Job-training Workshop on "Practical Hands on Internet of Things using Arduino" Mr. Vinayak D. Co-Founder, aSMa Embedded Solutions, Hubli | |
| 55. On Job-training Workshop on "Practical Hands on Internet of Things using Arduino" Mr. Vinayak D. Co-Founder, aSMa Embedded Solutions, Hubli 56. Rajeev and company, Belagavi 2019-20 ME | 36 |
| 55. On Job-training Workshop on "Practical Hands on Internet of Things using Arduino" Mr. Vinayak D. Co-Founder, aSMa Embedded Solutions, Hubli 56. Rajeev and company, Belagavi 2019-20 ME 57. Supa Dam, Ganeshanagudi 2019-20 ME | 36 51 |
| 55. On Job-training Workshop on "Practical Hands on Internet of Things using Arduino" Mr. Vinayak D. Co-Founder, aSMa Embedded Solutions, Hubli 56. Rajeev and company, Belagavi 2019-20 ME 57. Supa Dam, Ganeshanagudi 2019-20 ME 58. Abhishek ALLoys, Belagavi 2019-20 ME | 36 51 32 |
| 55. On Job-training Workshop on "Practical Hands on Internet of Things using Arduino" Mr. Vinayak D. Co-Founder, aSMa Embedded Solutions, Hubli 56. Rajeev and company, Belagavi 2019-20 ME 57. Supa Dam, Ganeshanagudi 2019-20 ME 58. Abhishek ALLoys, Belagavi 2019-20 ME 59. AEQUS, Belagavi 2019-20 ME | 36 51 32 23 |
| 55. On Job-training Workshop on "Practical Hands on Internet of Things using Arduino" Mr. Vinayak D. Co-Founder, aSMa Embedded Solutions, Hubli 56. Rajeev and company, Belagavi 2019-20 ME 57. Supa Dam, Ganeshanagudi 2019-20 ME 58. Abhishek ALLoys, Belagavi 2019-20 ME 59. AEQUS, Belagavi 2019-20 ME 60. Abhishek Alloys, Belagavi 2019-20 ME | 36 51 32 23 6 |
| 55. On Job-training Workshop on "Practical Hands on Internet of Things using Arduino" Mr. Vinayak D. Co-Founder, aSMa Embedded Solutions, Hubli 56. Rajeev and company, Belagavi 2019-20 ME 57. Supa Dam, Ganeshanagudi 2019-20 ME 58. Abhishek ALLoys, Belagavi 2019-20 ME 59. AEQUS, Belagavi 2019-20 ME | 36 51 32 23 |



S J P N Trust's Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| 63. | Krishna SahakariNiyamith, Athani | 2019-20 | ME | 5 |
|-----|--|---------|-----|----|
| 64. | Viswaraj Sugars | 2019-20 | ME | 5 |
| 65. | MRN Cane power and Bio engineers, Mandya | 2019-20 | ME | 2 |
| 66. | Abhishek ALLoys, Belagavi | 2019-20 | ME | 1 |
| 67. | Someshwar SahakariSakkareKarkane, Siddasamudra | 2019-20 | ME | 2 |
| 68. | Belmark Industries | 2019-20 | ME | 2 |
| 69. | Venkateswar Power Project Ltd | 2019-20 | ME | 1 |
| 70. | Someshwar SahakariSakkareKarkane, Siddasamudra | 2019-20 | ME | 2 |
| 71. | NOEL Engineers, Ichalakaranji | 2019-20 | ECE | 1 |
| 72. | Shivashakti Sugars, Soudatti | 2019-20 | ECE | 1 |
| 73. | K-Tech innovation, belagavi | 2019-20 | ECE | 10 |
| 74. | Appsluent software Pvt Ltd,bengaluru | 2019-20 | ECE | 9 |
| 75. | Technologics global pvtltd,Bangaluru | 2019-20 | ECE | 5 |
| 76. | Sandbox startup,hubbali | 2019-20 | ECE | 3 |
| 77. | Technophilia,sangli | 2019-20 | ECE | 1 |
| 78. | Cubic Code Digital Media LLP,Belagavi | 2019-20 | ECE | 17 |
| 79. | SV Mind Logic, Nippani | 2019-20 | ECE | 3 |
| 80. | Workflow Software, Sankeshwar | 2019-20 | ECE | 1 |
| 81. | Mr Gopalkrishna K-Tech innovation Belagavi | 2019-20 | ECE | 68 |
| 82. | Cisco Networking academy | 2019-20 | ECE | 31 |
| 83. | CDAC Bengaluru | 2019-20 | ECE | 39 |
| 84. | BSNL Belagavi | 2019-20 | ECE | 40 |
| 85. | Tevatron technologies and private limited | 2019-20 | ECE | 6 |
| 86. | National Power Training Institute (Ministry of power, | | ECE | |
| | Govt of India) | 2019-20 | | 9 |
| 87. | Decibels | 2019-20 | ECE | 1 |
| 88. | Cleverbert Solutions, Bangalore | 2019-20 | ECE | 35 |
| 89. | aMSa Embedded Solutions, Hubbali | 2019-20 | | 32 |
| 90. | ABHISHEK ALLOYS PVT. LTD. Mache Belgaum- | 2020-21 | ME | |
| | 590014. off -0831-2411041 | | | 11 |
| 91. | Vishwaraj Sugar Industries Ltd. Bellad Bagewadi-591305. | 2020-21 | ME | |
| | off 08333251251 | | | 03 |
| 92. | Shree Someshwar SahakariSakkareKarkhane Ni. | 2020-21 | ME | |
| | Bailhongal | | | 01 |
| 93. | Venkateshwara Power Project Ltd. Bedkhal -591214 Off. | 2020-21 | ME | |
| | 08338-257001 | | | 01 |
| 94. | Shivashakti Sugars Limited Soundatti-591213. Off. 08331- | 2020-21 | ME | |
| | 227607 | | | 01 |
| 95. | Bellmark Industries Belagavi-590008. Ph. 8970774847 | 2020-21 | ME | 06 |
| 96. | MRN Canepower and Biorefineries Pvt. Ltd Pandavapura | 2020-21 | ME | |
| | Mandya-571435 | | | 02 |
| 97. | Shri HiranyakeshiSahakariSakkareKarkhaneNiyamit | 2020-21 | ME | |
| | Sankeshwar-591313 Off. 08333-273001 | | | 25 |
| 98. | The Krishna SahakariSakkareKarkhaneNiyamit Athani- | 2020-21 | ME | |
| | 591304. Off. 08289-255000 | | | 06 |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| 99. | Trimurti Ferro Cast. Belgaum-590014. Ph. 0831-2440604 | 2020-21 | ME | 01 |
|------|---|---------|-----|----|
| 100. | | 2020-21 | ME | 01 |
| 101. | Chidanand Basaprabhu Kore | 2020-21 | ME | |
| | SahakariSakkareKarakhaneNiyamit, Chikodi-591201 | | | 01 |
| 102. | Ashok Iron Works (P) Ltd. Belagavi-590014. Ph. | 2020-21 | ME | |
| | 9742260736 | | | 02 |
| 103. | GTTC Arabhavi-591307. Ph. 9141630309 | 2020-21 | ME | 17 |
| 104. | Nelson Industries Ichalakaranji, Maharastra | 2020-21 | ME | 02 |
| 105. | MVJ College of Engineering, Bengaluru | 2020-21 | CSE | 01 |
| 106. | Innovative creation solutions Bangalore | 2020-21 | CSE | 02 |
| 107. | Microsoft Knowledge solution, Pune | 2020-21 | CSE | 06 |
| 108. | Tech-Fortune, Bangalore | 2020-21 | CSE | 24 |
| 109. | Cleverbert Solutions, Bangalore | 2020-21 | ECE | 35 |
| 110. | Patco Transformer Industry, Plot No.48-51, Industrial | 2020-21 | EEE | |
| | Area, Jatrat | | | 17 |
| 111. | Shiruguppi Sugar Works Ltd | 2020-21 | EEE | 01 |
| 112. | PCB Designing at Tevatron Technologies Pvt. Ltd | 2020-21 | EEE | 01 |
| 113. | NPTI (National Power Training Institute), PO Box,8201, | 2020-21 | EEE | |
| | Banashankari stage II, Bangalore-560070 | | | 07 |
| 114. | Decibels lab Pvt ltd. | 2020-21 | EEE | 01 |
| 115. | | 2020-21 | EEE | |
| | Industrial Estate, Udyambag, Belagavi, | | | 30 |
| 116. | 1 | 2021-22 | ME | |
| | SahakariSakkareKarakhaneNiyamit, Chikodi-591201 | | | 01 |
| 117. | | 2021-22 | ME | 05 |
| 118. | Millennium Starch India Pvt. Ltd. Athani-591304, Ph08289-294062 | 2021-22 | ME | 02 |
| 119. | Abhishek Alloys Pvt. Ltd. Mache Belgaum-590014. off - | 2021-22 | ME | |
| | 0831-2411041 | | | 03 |
| 120. | Datta Krupa Engg Works. Jaysingpur | 2021-22 | ME | 01 |
| 121. | | 2021-22 | ME | 01 |
| 122. | Big Castings Pvt. Ltd. Belagavi-591156 Tel0831- | 2021-22 | ME | |
| | 2415880 | | | 04 |
| 123. | Sagar Engg Works, MIDC-416234 Kolhapur | 2021-22 | ME | 02 |
| 124. | , , , | 2021-22 | ME | 04 |
| 125. | Contriver Bangalore-7829540019 | 2021-22 | ME | 03 |
| 126. | AEQUS Hattargi Private Limited, HR Interaction with | 2021-22 | ME | |
| | students | | | 03 |
| 127. | Tech Fortune Pvt. Ltd, Bangalore | 2021-22 | CSE | 31 |
| 128. | • | 2021-22 | CSE | 04 |
| 129. | Microsoft Knowledge Solutions, Bangalore | 2021-22 | CSE | 05 |
| 130. | Compsoft Technologies, Bangalore | 2021-22 | CSE | 05 |
| 131. | | 2021-22 | CSE | 01 |
| 132. | Patco Transformer Industry, Nipani | 2021-22 | EEE | 19 |
| 133. | Shree Narasimha Transformer Industries, Chikodi | 2021-22 | EEE | 12 |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

Internships,
work & Vi

IQAC

Academics

Student Centric

Methods

Internships, Field
work & Visits

| 104 | CITTO D 1 | 2021 22 | PPP | 0.1 |
|------|--|---------|-------|-----|
| | GTTC, Belagavi | 2021-22 | EEE | 01 |
| | Field Visit to Solar Power Plant, Itnal | 2021-22 | EEE | 34 |
| | Industrial visit to Hidakal Dam | 2021-22 | EEE | 07 |
| 137. | Č | 2021-22 | ECE | 13 |
| | Electrosal Hi Tech Pvt. Ltd., Nipani | 2021-22 | ECE | 08 |
| 139. | | 2021-22 | ECE | 10 |
| 140. | Creintors Automation Solutions Pvt. Ltd | 2021-22 | ECE | 03 |
| 141. | , | 2021-22 | ECE | |
| | Wing, RMZ Ecoworld SEZ, Outer Ring Road, Bangalore, | | | |
| | 560103 | | | 01 |
| 142. | Maxgen Technology Pvt. Ltd.Near Columbia AsiaHospital | 2021-22 | ECE | 01 |
| 143. | , , | 2021-22 | ECE | 01 |
| 144. | 1 | 2021-22 | ECE | 01 |
| 145. | Industry Visit to Kayne's Technologies, Mysore and | 2021-22 | ECE | 87 |
| | oddabetta Tea Factory | | | |
| 146. | Jay HindEngineering, | 2022-23 | ME | 04 |
| | Majagoan Road, Udyambag, Belagavi, 192 | | | |
| 147. | * 5 | 2022-23 | ME | 04 |
| | Hadapsar Industrial Estate, Pune -411013 India | | | |
| 148 | Venus HydraulicsPlot No. 1203, KIADB, | 2022-23 | ME | 07 |
| 110. | - | 2022 23 | TVIL. | 07 |
| 140 | Auto Nagar, Belagavi-590016 Karnataka | 2022-23 | ME | 04 |
| 149. | Pheonix Computer Educations Kore Nagar R.D.Plaza | 2022-23 | ME | 04 |
| | Second Floor Near Canara Bank Chikodi | | | |
| 150. | R P Industrial Products Sy No. 329/330 GIT College Road | 2022-23 | ME | 02 |
| | Rajaram Nagar Belagavi590008 | | | |
| 151. | Knowx Innovations PVT. LTD. Bangalore | 2018-19 | ECE | 10 |
| 152. | Electrosal Hi Tech Pvt. Ltd. Nipani | 2018-19 | ECE | 10 |
| 153. | Technophilia, Sangali | 2018-19 | ECE | 1 |
| 154. | Sand Box Startups, Huballi | 2018-19 | ECE | 12 |
| | ATSSL Belagavi | 2018-19 | ECE | 5 |
| | Drona Automation Pvt. Ltd. Bangalore | 2018-19 | ECE | 1 |
| 157. | | 2018-19 | ECE | 2 |
| | Hubbali | | | |
| 158. | | 2018-19 | ECE | 1 |
| 159. | ITI Bangalore | 2018-19 | ECE | 1 |
| 160. | | 2019-20 | ECE | 34 |
| 161. | i · | 2020-21 | ECE | 13 |
| 162. | | 2020-21 | ECE | 8 |
| | Electiosai III Teeli I vt. Etd. Nipaiii | 2020-21 | LCL | |
| 163. | | 2020-21 | ECE | 9 |
| | - | | | |
| | Amsa embedded solutions, Hubbali | | | |
| 163. | Amsa embedded solutions, Hubbali | 2020-21 | ECE | 9 |
| 163. | Amsa embedded solutions, Hubbali Creintors automation solutions Pvt. Ltd. Wagawade, Belagavi | 2020-21 | ECE | 9 |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| 167 | BSNL Belagavi | 2020-21 | ECE | 1 |
|------|---|---------|-----|----|
| | FUEL Future Skill Institite, Hubali | 2021-22 | ECE | 20 |
| 169. | | 2021-22 | ECE | 5 |
| 10). | Hubbali | 2021-22 | ECL | J |
| 170. | Technophilia, Sangali | 2021-22 | ECE | 2 |
| 171. | Seventh Sense Talent Solutions, Bangalore | 2021-22 | ECE | 1 |
| 172. | Tech Fortune Technologies, Bangalore | 2021-22 | ECE | 1 |
| 173. | | 2022-23 | ECE | 6 |
| 174. | Amsa embedded solutions Hubbali | 2022-23 | ECE | 7 |
| | GTTC, Udyambag,Belgavi | 2022-23 | ECE | 3 |
| | Robosap Innovations Pvt. Ltd. NIPPANI | 2022-23 | ECE | 7 |
| 177. | Technologics Global Pvt. Ltd. Bangalore | 2022-23 | ECE | 10 |
| 178. | Technofist Bangalore | 2022-23 | ECE | 13 |
| 179. | KPTCL, Belagavi | 2019-20 | EEE | 10 |
| 180. | | 2019-20 | EEE | 05 |
| 181. | PATCO Transformer Industries, Nipani | 2019-20 | EEE | 19 |
| 182. | Shantala Industrial Training & Research Centre, Hubli | 2019-20 | EEE | 13 |
| 183. | Precimeasure controls, Dobaspete, Bangalore | 2019-20 | EEE | 08 |
| 184. | Ugar Sugar Works Ltd,Ugar Khurd | 2019-20 | EEE | 01 |
| 185. | Shreem Electrical, Maharashtra | 2019-20 | EEE | 01 |
| 186. | Patco Transformer Industry, Nipani | 2020-21 | EEE | 17 |
| 187. | Shiruguppi Sugar Works Ltd | 2020-21 | EEE | 01 |
| 188. | | 2020-21 | EEE | 01 |
| 189. | NTPC(Ministry of power, Govt of Industry) | 2020-21 | EEE | 07 |
| 190. | Decibels lab | 2020-21 | EEE | 01 |
| 191. | PATCO Transformer Industry, Nipani | 2021-22 | EEE | 20 |
| 192. | Shree Narasimha Transformer Industries Chikodi. | 2021-22 | EEE | 12 |
| 193. | GTTC, Belagavi | 2021-22 | EEE | 01 |
| 194. | Mithril Belagavi | 2021-22 | EEE | 01 |
| 195. | Shree. Narasimha Industries, Chikodi. | 2022-23 | EEE | 09 |
| 196. | GTTC, Chikodi | 2022-23 | EEE | 05 |
| 197. | HESCOM, Hubballi | 2022-23 | EEE | 04 |
| 198. | Venkateshwara Power Project Ltd. Bedakihal | 2022-23 | EEE | 03 |
| 199. | Siddhi Vinayak Transformer Industries, Belagavi | 2022-23 | EEE | 01 |
| 200. | GTTC College, Belagavi | 2023-24 | EEE | 02 |
| 201. | Hukkeri Rural Electricity Cooperative Society, Ltd | 2023-24 | EEE | 06 |
| | Hukkeri | | | 00 |
| 202. | Ai ROBOSOFT Products & Services, Bangalore | 2023-24 | EEE | 04 |
| 203. | Shivashakti Sugars Ltd, Soundatti. | 2023-24 | EEE | 04 |
| 204. | Shree. Narasimha Industries, Chikodi | 2023-24 | EEE | 01 |
| 205. | AMSA Embedded Solutions, Hubballi | 2023-24 | EEE | 01 |
| 206. | , | 2023-24 | CSE | 02 |
| 207. | y , | 2023-24 | CSE | 02 |
| | PDO Gram Panchayat ,Nerli | 2023-24 | CSE | 10 |
| 209. | PDO Gram Panchyat, Nidasoshi | 2023-24 | CSE | 48 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC Academics Student Centric Methods Internships, Field work & Visits

| 210. | President Gram Panchyat, Siddewadi | 2023-24 | CSE | 01 |
|------|--|---------|-----|------|
| 211. | Govt.Primary School, Kudachi | 2023-24 | CSE | 01 |
| 212. | PDO Gram Panchyat, Kudachi | 2023-24 | CSE | 01 |
| 213. | Chief Officer TMC, Sankeshwar | 2023-24 | CSE | 05 |
| 214. | HR Manager, WILO Mather & Platt Pumps Pvt Ltd, | 2023-24 | CSE | 01 |
| | Kolhapur | | | |
| 215. | Dlithe Consultancy Service Pvt LDt Bangalore | 2023-24 | CSE | 11 |
| 216. | Airobosoft Pvt Ldt, Bangalore | 2023-24 | CSE | 26 |
| 217. | Zeel Code Labs, Bangalore | 2023-24 | CSE | 13 |
| 218. | Agile Tech, Hubli | 2023-24 | CSE | 06 |
| 219. | Fuel Technologies, Hubli | 2023-24 | CSE | 02 |
| 220. | Infdata Technologies | 2023-24 | CSE | 01 |
| 221. | Fule Technologies, Hubli | 2022-23 | CSE | 23 |
| 222. | Infy Sky Pvt Ltd, Belagavi | 2022-23 | CSE | 05 |
| 223. | Plesset Technologies, Mysore | 2022-23 | CSE | 08 |
| 224. | TechnophilliaAcademy,Sangli | 2022-23 | CSE | 02 |
| 225. | AMSA Embedded Solutions, Hubli | 2022-23 | CSE | 01 |
| 226. | Aftabahmed Qazi | 2022-23 | CSE | 02 |
| 227. | Tech Fortune Pvt Ltd,Bangalore | 2021-22 | CSE | 21 |
| 228. | Microsoft Knowledge Solutions ,Bangalore | 2021-22 | CSE | 05 |
| 229. | Synkentrono Software Solutions Pvt Ltd Bangalore | 2021-22 | CSE | 04 |
| 230. | Bionic Engineer, Bangalore | 2021-22 | CSE | 01 |
| 231. | CompsoftTechnologies,Bangalore | 2021-22 | CSE | 05 |
| 232. | Tech Fortune Pvt Ltd,Bangalore | 2020-21 | CSE | 26 |
| 233. | Microsoft Knowledge Solutions ,Bangalore | 2020-21 | CSE | 09 |
| 234. | Innovative Creation Solutions | 2020-21 | CSE | 01 |
| 235. | WorkFlowSoftwares ,Sankeshwar | 2019-20 | CSE | 01 |
| 236. | K-Tech Solutions | 2019-20 | CSE | 10 |
| 237. | Appslucent Software Pvt Ltd ,Bangalore | 2019-20 | CSE | 08 |
| 238. | Cubic Code Digital Media LLp , Belagavi | 2019-20 | CSE | - 17 |
| 239. | Sandbox Startup Hubli | 2019-20 | CSE | 09 |
| 240. | Technophilia ,Sangli | 2019-20 | CSE | 01 |
| 241. | SV Mind Logic ,Nippani | 2019-20 | CSE | 03 |
| 242. | Technologies Global Pvt Ltd, Bangalore | 2019-20 | CSE | 02 |
| 243. | Amsa Embedded Solutions ,Hubli | 2018-19 | CSE | 10 |
| 244. | Tech Forutne | 2018-19 | CSE | 15 |
| 245. | WorkFlowSoftware,Sankeshwar | 2018-19 | CSE | 07 |
| 246. | Evalet Technologies | 2018-19 | CSE | 08 |
| 247. | StavyLab Technologies Pvt Ltd Bangalore | 2018-19 | CSE | 05 |
| 248. | Simplified Future System - | 2018-19 | CSE | 02 |

Nidasosh

Principal PRINCIPAL

Hirasugar Institute of Technology
Niclasoshi-591236 Nidasoshi-591 236, Taq: Hukkeri, Dist. Belagavi, Karnataka, India.
Niclasoshi-591236 Nidasoshi-591 236, Taq: Hukkeri, Dist. Belagavi, Karnataka, India.
Niclasoshi-591236 Nidasoshi-591 236

S TO THE STATE OF THE STATE OF

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC

Academics
Student Centric
Methods
TP Cell Activities

List of Training & Placement Cell and Entrepreneurship Development Cell Activities conducted to promote Participative Learning during the AYs: 2018-19 to Till Date

The institute has exclusive and well-established Training and Placement Cell (TP Cell) and Entrepreneurship Development Cell (EDC) to support students for their employment and career guidance. Students are participated in the following TP Cell and ED Cell activities, which are facilitated by the institute. By participating in these activities, student will learn aptitude, group discussion, coding and interview skills.

| | Type of Activity | Academic | | No. of |
|------|---|----------|---------|--------------|
| S.N. | Seminars, Workshops, Trainings, Technical Talks, | Year | Dept. | students |
| 1 | placement drives etc. | | | participated |
| 1. | Tessolve semiconductor Pvt. Ltd., Bengaluru | 2018-19 | TP Cell | 13 |
| 2. | Pool Drive Training Classes ICT Academy Organized " Career Counseling | | | |
| ۷. | Workshop for students towards building a great Future | 2018-19 | TP Cell | 69 |
| 3. | Orientation Program on Training & Placement Activities | | | |
| 3. | By Mrs. Ragini, Director | 2019-20 | TP Cell | 220 |
| | Innovation Unlimited Training Services, Bengaluru | | | |
| 4. | CREA (Coaching for Recruitment and Empowerment of | | | |
| | Actions) Training Program | 2019-20 | TP Cell | 114 |
| | Innovation Unlimited Training Services, Bengaluru | | | |
| 5. | C- Programming Training Program | 2019-20 | TP Cell | 94 |
| | Innovation Unlimited Training Services, Bengaluru | 2017-20 | 11 CCII | 74 |
| 6. | Motivational Speech | | | |
| | Mr. Arjun Koli | 2019-20 | TP Cell | 58 |
| | Retired Indian Army Officer (From: Shirol, Kolhapur) | | | |
| 7. | Cadence Pre-placement Training | | | |
| | By Prof. Pramod V Patil- (NA) Prof. Pramod | 2010.20 | TD C-11 | 22 |
| | Murari-(ECA) Prof.Sachin S Patil-(DE) Prof.Sachin S Patil-(CMOS) Prof. Sagar S Birade-(AEC) Prof. K | 2019-20 | TP Cell | 23 |
| | B Negalur-(CS) | | | |
| 8. | Guest Lecturer on "Placement Preparation" | | | |
| 0. | By Dr. S N Kurbet | 2019-20 | TP Cell | 46 |
| | Professor & TPO, BEC Bagalkot | 2017 20 | 11 0411 | |
| 9. | Talk on "How to Prepare IAS, KAS & IBPS Banking | | | |
| | Exams" | | | |
| | By Mr. Santosh R (Asst. Commissioner, state Audit & | 2019-20 | TP Cell | 88 |
| | Account Department) | 2019-20 | IF Cell | 00 |
| | Mr. Akkilakumar Halagatti, Director, Gurudev IAS & KAS | | | |
| | Academy, Dharwad | | | |
| 10. | CREA (Coaching for Recruitment and Empowerment of | | | |
| | Actions) Training Program | 2019-20 | TP Cell | 55 |
| 1 1 | By Innovation Unlimited Training Services, Bengaluru | 2010 20 | TD C 11 | 7.5 |
| 11. | Talk on "Career Guidance and Preparation" | 2019-20 | TP Cell | 75 |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC Academics Student Centric Methods **TP Cell Activities**

| | By Mr. Rajesh, Excellent Academy, Bengaluru | | | |
|------|---|---|---------|-----|
| 12. | CSR Training | • | | |
| | By Mrs. Priya Kulkarni, Global Talent Track, Bengaluru | 2019-20 | TP Cell | 112 |
| 13. | Online training in Atos Syntel Program conducted by | | | |
| 10. | Global Talent Track. | | | |
| | By Mr. Nawnit Kumar, Corporate Alliance Manager Global | 2019-20 | TP Cell | 213 |
| | Talent Track | | | |
| 14. | FUEL(Friends Union for Engineering Lives, India | | | |
| 17. | By Future Skills Program | 2020-21 | TP Cell | 80 |
| 15. | A National Level Webinar on Job Opportunities for | | | |
| 13. | Mechanical & Civil Engineering Students after Covid-19 in | | | |
| | FEM. By Mr. Vijayavittthal Illal Director, CADVISION | | | |
| | R&D, Bengaluru | 2020-21 | TP Cell | 60 |
| | By Mr. Vijayavittthal Illal Director, CADVISION R&D, | | | |
| | Bengaluru | | | |
| 16. | Placement Assistance Training (18 Days) | | | |
| 10. | By Seventh Sense Talent Solution, Bengaluru | 2020-21 | TP Cell | 116 |
| 17. | Microsoft Ai, Machine Learning & Data Science in | | | |
| 1/. | association with NASSCOM through VTU CPC | 2020-21 | TP Cell | 116 |
| | By NASSCOM | 2020-21 | IF Cell | 110 |
| 18. | Global Talent Track | | | |
| 16. | | | | |
| | By Mr. Nawnit Kumar | 2020-21 | TP Cell | 160 |
| | University Alliance Manager, Global Talent Track | | | |
| 10 | | | | |
| 19. | Fly Weight (Product Building with Python Course) Every | | | |
| | day, 6 AM - 8 AM | 2020-21 | TP Cell | 121 |
| | By Mr. Shrijith, | 2020-21 | 17 Cell | 121 |
| | Software Engineering Researcher at University of | | | |
| 20 | California, Irvine as a Masters Degree Pursuant | | | |
| 20. | KodNest Dream Factory Project | 2020 21 | TD C-11 | 77 |
| | By Aptitude, Technical Programming, PD & Resume | 2020-21 | TP Cell | 77 |
| 21 | Building | | | |
| 21. | Face Prep Lounchpad By A Free Placement Proposition Course | 2020-21 | TP Cell | 37 |
| - 22 | By A Free Placement Preparation Course | | | |
| 22. | Career Labs by "BYJUS" A Talk on "Placement | 2020-21 | TP Cell | 50 |
| - 22 | Opportunities in Various Domens" | 2020 21 | TD C 11 | 70 |
| 23. | Great Learning Job Eligibility Test | 2020-21 | TP Cell | 78 |
| 24. | VTUSupports Destination Technologies | | | |
| | VTU CPC Supports the 'Career and Placement Program' | 2020-21 | TP Cell | 116 |
| | 120+ Hours of Free Employability Training with Placement | | | |
| 25 | Assistance In Association with Destination Technologies | | | |
| 25. | Orientation Program on "Pre-placement Activities" | 2021 22 | TD C 11 | 227 |
| | By Mr. Manjunath Aradhya Founder & CEO, ABC, | 2021-22 | TP Cell | 237 |
| | Bengaluru | | | |
| 26. | Seminar on "Cloud Technology" | 2021-22 | TP Cell | 107 |
| | By Miss. Priyanka H, | | | |

STATE OF STA

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 IQAC

Academics

Student Centric
Methods

TP Cell Activities

| | Senior Team Lead at HP, Bengaluru | | | |
|-----|---|---------|---------|-----|
| 27. | CREA (Coaching for Recruitment and Empowerment of Actions) Training Program By Innovation Unlimited Training Services, Bengaluru | 2021-22 | TP Cell | 77 |
| 28. | A Talk on "Robotics & Automation" By Mr. Neelesh B. Chougule, Chairman & MD, Creintors Group of Companies & Mrs. Disha N. Chougule, Director, Creintors Automation Solution Pvt. Ltd | 2021-22 | TP Cell | 195 |
| 29. | Interactive Session on ""Awareness & Career Opportunities in Full Stack" By Mr.Rohit Ravinder Founder & CEO, TAP Academy, Bengaluru | 2021-22 | TP Cell | 89 |
| 30. | Techno-Functional Talk Event for 30 Minute on Latest Industrial Revolution & Career Guidance By Ms.Divya Shree S Business Development Executive Technologics Global Pvt Ltd. | 2021-22 | TP Cell | 23 |
| 31. | Inaugural Function of 'JAVA Full Stack Course" Sponsored by Karntaka State Skill Development Corporation Govt. of Karnataka By CADMAXX Solution Pvt. Ltd, Bengaluru | 2021-22 | TP Cell | 49 |
| 32. | 45 Days Online Free Foudation Certificate Course on Spoken English, Basic Computer Skills, Resume Preparation & Interview Skills.with Placement Supports By Magic Bus India Foundation | 2021-22 | TP Cell | 124 |
| 33. | Interdisciplanery Approach to Excel in your Career By Mr. Pramod Parid Sr. HR at Creintors Group of Companie, Belagavi | 2021-22 | TP Cell | 146 |
| 34. | Free Online Certificate Courses in Machine Learning and Artificial Intelligence for computer and IT Engineering Students (4 Weeks Duration) By YBI Foundation Company | 2022-23 | TP Cell | 59 |
| 35. | Session on SAP By Mr. Sanjay Arali, Tecno Connect Hub, Pune | 2022-23 | TP Cell | 44 |
| 36. | "A Free Webinar on How to get a Placement in Multinational Companies" (3 Days) IIT Mumbai Present's | 2022-23 | TP Cell | 81 |
| 37. | Virtual Workshop - (Solving Real – World Industry Problems with Ai Computer Vision) By AI Computer Vision | 2022-23 | TP Cell | 127 |
| 38. | Free- TCS Specific Training for 2023 batch Students (15 Days) By Seventh Sense Talent Solution | 2022-23 | TP Cell | 127 |
| 39. | Free Online Company Specific Training for all Mass Recruiters through Place Sense (Hexaware Specific Training) By Seventh Sense Talent Solution | 2022-23 | TP Cell | 46 |
| 40. | Free Software Training Courses for Freshers in Manual Testing, Automation Testing, JAVA, DotNet & Python with | 2022-23 | TP Cell | 73 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC

Academics
Student Centric
Methods
TP Cell Activities

| | 10+ Live Industry Projects. (Course Duration 2 Months online mode per day 1 hour) By Besant Technologies, Bengaluru | | | |
|-----|---|---------|---------|-----|
| 41. | Pre-Placement Training (90 hrs of CRT along with details of the "Minutes Mentor" program) By Mr. Nikhil Vyas Genesis Trainers, Bengaluru | 2022-23 | TP Cell | 61 |
| 42. | Orientation Programme Training & Placement Activities for 2023 Batch Students By Dr. S C Kamate- Principal Prof. N M Patel- Dean Placements Dr. B V Madigond – Dean Academics & HOD EEE Dr. S N Topannavar – HOD ME Prof. S V Manjaragi – HOD CSE | 2022-23 | TP Cell | 119 |
| 43. | A Talk on "Career Prospects" By Mr. Madhav Gitte, IAS Working as Assistant Commissioner, Chikodi | 2022-23 | TP Cell | 132 |
| 44. | Pre-Placement Training (30 Hours) (Training & Capaity Building Programme-Aptitude) By Mr. Anand Kanthi, Aptitude Trainer | 2022-23 | TP Cell | 105 |
| 45. | Training on Python & IOT (Soft Skills) for Girls Students only By Online Python & IOT Training in Association with NASSCOM foundation & Birlasoft. PS by Seventh Sense Talent Solution, Bengaluru | 2022-23 | TP Cell | 31 |
| 46. | Friends Union for Engineering Lives (FUEL) By David George Project Manager, Friends Union For Energising Lives (FUEL) | 2022-23 | TP Cell | 113 |
| 47. | Orientation Programme on "Training & Placement Activities" By Rajesh Manjunath, Business Head, Skill Fact, Bengaluru | 2022-23 | TP Cell | 97 |
| 48. | Orientation Programme on "Training & Placement Activities" By Rajesh Manjunath, Business Head, Skill Fact, Bengaluru | 2023-24 | TP Cell | 97 |
| 49. | Awareness Program on EYE Donation & EYE Care By Dr. Poorva MBBS, MS, DNB M M Joshi EYE Institute, Sankeshwar | 2023-24 | TP Cell | 108 |
| 50. | CRT (Campus Recruitment Training) By Skill Fact, Bengaluru | 2023-24 | TP Cell | 82 |

200 O 300 O

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

TP Cell Activities

| S.N. | Type of Activity (Placement Drives) | Academic Year | Dept. | No. of students participated |
|------|--|---------------|---------|------------------------------|
| 1. | ABC, Bengaluru | 2018-19 | TP Cell | 140 |
| 2. | Tech-Fortune Technologies, Bengaluru | 2018-19 | TP Cell | 180 |
| 3. | Tessolve Semiconductor | 2018-19 | TP Cell | 27 |
| 4. | Printers Zone, Bengaluru | 2018-19 | TP Cell | 59 |
| 5. | Maventech Technologies, Bengaluru | 2018-19 | TP Cell | 137 |
| 6. | HCL Through Maintec Pool drive in HSIT by Tech | 2018-19 | TP Cell | 120 |
| | Fortune, Bengaluru | | | 128 |
| 7. | Cubiccode, Marketing LLP, Bengaluru | 2018-19 | TP Cell | 38 |
| 8. | Codilar Technologies Bengaluru | 2018-19 | TP Cell | 28 |
| 9. | PalC Networks, Bengaluru | 2018-19 | TP Cell | 60 |
| 10. | Cadence,Bengaluru | 2018-19 | TP Cell | 28 |
| 11. | SLV Technologies Pvt Ltd & Powaha Infotech Pvt Ltd | 2018-19 | TP Cell | 22 |
| | Hubli | | | 22 |
| 12. | Sankalp Semiconductor, Hubli | 2018-19 | TP Cell | 06 |
| 13. | Infosys through VTU CPC | 2018-19 | TP Cell | 79 |
| 14. | ELEATION, Pune | 2018-19 | TP Cell | 50 |
| 15. | Kalyani Forge, Pune | 2018-19 | TP Cell | 04 |
| 16. | Anora Semiconductors Pvt. Ltd. Bengaluru | 2018-19 | TP Cell | 35 |
| 17. | KodNest, Bengaluru | 2018-19 | TP Cell | 103 |
| 18. | Qspiders, Bengaluru | 2018-19 | TP Cell | 80 |
| 19. | Cadence Design Systems Inc, Bengaluru | 2019-20 | TP Cell | 19 |
| 20. | Juspay Technologies | 2019-20 | TP Cell | 64 |
| 21. | Cognizant (VTU CPC) | 2019-20 | TP Cell | 91 |
| 22. | Wipro Limited (VTU CPC) | 2019-20 | TP Cell | 63 |
| 23. | ELEATION, Pune | 2019-20 | TP Cell | 51 |
| 24. | Mind Tree | 2019-20 | TP Cell | |
| | (VTU CPC) | | | 26 |
| 25. | Infosys (VTU CPC) | 2019-20 | TP Cell | 86 |
| 26. | Tech Fortune Technologies, Bengaluru | 2019-20 | TP Cell | 200 |
| 27. | IBM (Only for Women) (VTU CPC) | 2019-20 | TP Cell | 53 |
| 28. | Sankey Solutions Pvt Ltd, Thane | 2019-20 | TP Cell | 82 |
| 29. | SLK Softwares, Bengaluru | 2019-20 | TP Cell | 53 |
| 30. | Extramarks Pvt Ltd, Bengaluru | 2019-20 | TP Cell | 50 |
| 31. | Chola MS General Insurance, Bengaluru | 2019-20 | TP Cell | 97 |
| 32. | Creators Technology Solution, Nagpur, Maharashtra | 2019-20 | TP Cell | 69 |
| 33. | Technologics Global Pvt. Ltd, Bengaluru | 2019-20 | TP Cell | 163 |
| 34. | Qspiders, Bengaluru | 2019-20 | TP Cell | 129 |
| 35. | Sasken Technologies Ltd, Bengaluru | 2019-20 | TP Cell | 54 |
| 36. | Qualitas Technologies Pvt Ltd, Bengaluru | 2019-20 | TP Cell | 33 |
| | Nidasoshi-591 236, Tag: Hukkeri, Dist: Bela | l l | | 1 |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC Academics **Student Centric** Methods **TP Cell Activities**

| | · | | | |
|------------|---|----------------------|----------|-----|
| 37. | Anora Semiconductor Labs, Bengaluru | 2019-20 | TP Cell | 73 |
| 38. | ETHNUS CODEMITHRA, Bengaluru | 2019-20 | TP Cell | 110 |
| 39. | ABC, Bengaluru | 2019-20 | TP Cell | 04 |
| 40. | KodNest, Bengaluru | 2019-20 | TP Cell | 75 |
| 41. | Pentagon Space Pvt Ltd, Bengaluru | 2019-20 | TP Cell | 06 |
| 42. | UTTARA INFOSOLUTION, Bengaluru | 2019-20 | TP Cell | 25 |
| 43. | Chegg India Pvt Ltd, Delhi | 2020-21 | TP Cell | 116 |
| 44. | Cloud Thing India Pvt. Ltd. by KodNest | 2020-21 | TP Cell | 33 |
| 45. | Infosys Limited | 2020-21 | TP Cell | 55 |
| 46. | Technologics Global Pvt Ltd, Bengaluru | 2020-21 | TP Cell | 116 |
| 47. | M/s. Smart Brains Engineers & Technologist Pvt. | 2020-21 | TP Cell | |
| .,, | Through Ltd Path Creators Solutions Pvt. Ltd. | 2020 21 | 11 0011 | 26 |
| | Bangalore | | | |
| 48. | Rai Jnan Pvt Ltd, Bengaluru | 2020-21 | TP Cell | 43 |
| 49. | Qspiders, Bengaluru | 2020-21 | TP Cell | 116 |
| 50. | Prodapt by KodNest | 2020-21 | TP Cell | 116 |
| 51. | Pentagon Space, Bengaluru | 2020-21 | TP Cell | 116 |
| 52. | Seventh Sense Talent Solution, Bengaluru | 2020-21 | TP Cell | 116 |
| 53. | Elcamino Software Solutions Pvt. Ltd, Bengaluru | 2020-21 | TP Cell | 116 |
| 54. | Verzeo Through Seventh Sence | 2020-21 | TP Cell | 116 |
| 55. | Tata Consultancy Services(TCS) | 2020-21 | TP Cell | 116 |
| 56. | Skolar | 2020-21 | TP Cell | 116 |
| 57. | Capgemini | 2020-21 | TP Cell | 80 |
| 58. | Tata Consultancy Services (TCS) | 2021-22 | TP Cell | 95 |
| 59. | NTT Data | 2021-22 | TP Cell | 38 |
| 60. | IBM | 2021-22 | TP Cell | |
| 00. | (Vtu Cpc) | 2021 22 | TI CCII | 90 |
| 61. | Emertxe Information Technologies | 2021-22 | TP Cell | 38 |
| 62. | Spurtree Technologies | 2021-22 | TP Cell | 39 |
| 63. | Hexaware Technologies | 2021-22 | TP Cell | 39 |
| 64. | HCL Technologies Ltd. (VTU CPC) | 2021-22 | TP Cell | 86 |
| 65. | Hitachi Vantara | 2021-22 | TP Cell | 43 |
| 66. | One Advanced Through Ethnus, Bengaluru | 2021-22 | TP Cell | 121 |
| 67. | Kodnest, Bengaluru (Kodnest Dream Factory-2022) | 2021-22 | TP Cell | 90 |
| 68. | JK Technosoft | 2021-22 | TP Cell | 85 |
| 69. | L&T Technology Services Limited (LTTS) | 2021-22 | TP Cell | 36 |
| 70. | Infosys Limited | 2021-22 | TP Cell | 87 |
| 71. | Quest Global Engineering Services Pvt. Ltd. | 2021-22 | TP Cell | 94 |
| 72. | Job Fair By Karnataka Govt. | 2021-22 | TP Cell | 62 |
| 73. | Capgemini Technology Services India Limited | 2021-22 | TP Cell | 125 |
| 74. | Target (VTU CPC) Only Women Engineers | 2021-22 | TP Cell | 55 |
| 75. | Lemonvb Techsolu Private Limited | 2021-22 | TP Cell | 73 |
| 75. 76. | Worksbot Applications Pvt Ltd, Sipcot IT Park, | 2021-22 | TP Cell | |
| 70. | Siruseri, Chennai | 2021-22 | II Con | 76 |
| 77. | Uptycs India Private Limited | 2021-22 | TP Cell | |
| , , . | (Vtu Cpc) | 2021 22 | | 36 |
| | Nidasoshi-591 236, Taq: Hukkeri, Dist: Bela | navi Karnataka India | <u>l</u> | |

200 (3) pre-

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric

Methods

TP Cell Activities

| | | | • | |
|------|--|---------|---------|---------|
| 78. | Propel Technology Solutions | 2021-22 | TP Cell | 11 |
| 79. | Karmic Design Private Limited | 2021-22 | TP Cell | 28 |
| 80. | Wipro Limited | 2021-22 | TP Cell | 96 |
| 81. | Tech Mahindra Limited | 2021-22 | TP Cell | 40 |
| 82. | Revature | 2021-22 | TP Cell | 28 |
| 83. | Sankey Business Solutions Pvt. Ltd | 2021-22 | TP Cell | 42 |
| 84. | BYJU'S (VTU CPC) | 2021-22 | TP Cell | 124 |
| 85. | Mind Tree | 2021-22 | TP Cell | 50 |
| 86. | Explore & Enolve Pvt. Ltd. | 2021-22 | TP Cell | 128 |
| 87. | Sasken Technologies | 2021-22 | TP Cell | 31 |
| 88. | Anora Semiconductor | 2021-22 | TP Cell | 54 |
| 89. | Palle Technologies, Bengaluru | 2021-22 | TP Cell | 48 |
| 90. | Renault Nissan Technology & Business Centre India | 2021-22 | TP Cell | 87 |
| | Pvt. Ltd. | | | 07 |
| 91. | Tech Pundits Info. Systems | 2021-22 | TP Cell | 13 |
| 92. | BOSCH Global Software Technologies Pvt. Ltd | 2021-22 | TP Cell | 40 |
| | by Destination Technologies | | | 40 |
| 93. | ATOS Syntel | 2021-22 | TP Cell | 12 |
| 94. | Tarento Technologies Private Limited | 2021-22 | TP Cell | 12 |
| 95. | Qspiders, Bengaluru | 2021-22 | TP Cell | 71 |
| 06 | VedNest Dencelum | 2021-22 | TP Cell | 34 |
| 96. | KodNest, Bengaluru | 2021-22 | TP Cell | 26 |
| 97. | Cadence Design Systems | 2021-22 | TP Cell | 36 |
| 98. | Aequs Private Limited | 2021-22 | TP Cell | 87 |
| 99. | Profound Edutech, Pune | 2021-22 | TP Cell | 84 |
| 100. | Pentagon Space Pvt Ltd | 2021-22 | TP Cell | 85 |
| 101. | Elcamino Software Pvt Ltd | 2021-22 | TP Cell | 03 |
| 102. | Fourfront Pvt. Ltd., Pune | 2021-22 | TP Cell | 82 |
| 103. | Upskilling EduTech Private Limited ("Skillvertex") | 2021-22 | TP Cell | 15 |
| 104. | Bluebenz Digitizations Pvt. Ltd | 2021-22 | TP Cell | 32 |
| 105. | TAP Academy | 2021-22 | TP Cell | 85 |
| 106. | ABC, Bengaluru (CSR Drive & IT Job Readiness | 2021-22 | TP Cell | 99 |
| | Workshop) | | | <i></i> |
| 107. | Inmovidu Technologies | 2021-22 | TP Cell | 05 |
| 108. | Exam Room AI | 2021-22 | TP Cell | 01 |
| 109. | Medini Technologies & Vinsys, Bengaluru | 2021-22 | TP Cell | 48 |
| 110. | V3iT Consulting Pvt Ltd, Belagavi | 2021-22 | TP Cell | 12 |
| 111. | Cognizant | 2022-23 | TP Cell | 79 |
| 112. | Faurecia | 2022-23 | TP Cell | 01 |
| 113. | Cadence | 2022-23 | TP Cell | 22 |
| 114. | Juego Studio | 2022-23 | TP Cell | 76 |
| 115. | Prudentia Group | 2022-23 | TP Cell | 45 |
| 116. | Pacewisdom | 2022-23 | TP Cell | 70 |
| 117. | Campalin Innovations Pvt. Ltd. | 2022-23 | TP Cell | 82 |
| 118. | Codecraft Technologies, Bengaluru | 2022-23 | TP Cell | 42 |



SJPN Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC
Academics
Student Centric
Methods
TP Cell Activities

| 119. | Hexaware Technologies, Bengaluru | 2022-23 | TP Cell | 76 |
|------|---|---------|---------|----|
| 120. | Accolite Digital by Destination Technologies | 2022-23 | TP Cell | 82 |
| 121. | IBM India Pvt. Ltd | 2022-23 | TP Cell | 19 |
| 122. | Palle Technologies | 2022-23 | TP Cell | 74 |
| 123. | Tech Mahindra | 2022-23 | TP Cell | 30 |
| 124. | Placement Week Survey Sparrow | 2022-23 | TP Cell | 41 |
| 125. | Intellipaat, Bengaluru | 2022-23 | TP Cell | 38 |
| 126. | Aloha Technology Pvt. Ltd, Pune | 2022-23 | TP Cell | 29 |
| 127. | TAP Academy | 2022-23 | TP Cell | 58 |
| 128. | Aficionado Technologies Pvt. Ltd | 2022-23 | TP Cell | 27 |
| 129. | EthnusCodemithra, Bengaluru | 2022-23 | TP Cell | 70 |
| 130. | Vtech Integrated Solutions, Bengaluru | 2022-23 | TP Cell | 33 |
| 131. | Fedaral Bank | 2022-23 | TP Cell | 23 |
| 132. | KodNest Technologies, Bengaluru | 2022-23 | TP Cell | 61 |
| 133. | V3iT Consulting Pvt Ltd, Belagavi | 2022-23 | TP Cell | 36 |
| 134. | TCS National Qualififier Test (TCS NQT) -2023 | 2022-23 | TP Cell | 49 |
| 135. | Qspiders, Bengaluru | 2022-23 | TP Cell | 16 |
| 136. | Aarbee Structures Pvt Ltd | 2023-24 | TP Cell | 08 |
| 137. | Cadence | 2023-24 | TP Cell | 22 |
| 138. | Palle Technologies, Bengaluru | 2023-24 | TP Cell | 56 |
| 139. | Technologics Global Pvt Ltd. | 2023-24 | TP Cell | 25 |

Dr.S.N.Topannavar
IOAC Coordinator
IQAC Coordinator
Hirasugar Institute of Technology
Nidasoshi-591236



Dr. S. C. Kamate
Principal
PRINCIPAL
Hirasugar Institute of Technology
Nidasoshi-591 236

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics

Student Centric

Methods

Technical

Activities

List of Technical Activities conducted to promote Participative Learning during the AYs:2018-19 to Till Date

Institute is permanently affiliated to the Visvesvaraya Technological University, Belgaum. In view of NEP-2020 based revised curriculum of the affiliated university, the institute is facilitated all resources to conduct technical activities to promote activity-based learning (ABL) by the participation of students. The students are participating in the below activities to inculcate organizing & managing skills and emerging & ability enhancement skills and knowledge, to help society, and to maintain good physical and mental health.

| S.N. | Type of Activity | Academic Year | Dept. | No. of students participated |
|------|---|------------------|-------|------------------------------|
| 1. | Technical Talk on "Entrepreneurship" | 2018-19 | ME | 81 |
| 2. | Welcome function for 3 rd Semester Students and Inauguration of AIMSS Activities 2018-19 | 2018-19 | ME | 151 |
| 3. | Industrial Visit at Rajeev and company manufacturers of ball valve, Devarwadi ,Maharashtra | 2018-19 | ME | 40 |
| 4. | Talk on Geometric Dimensioning and Tolerances | 2018-19 | ME | 42 |
| 5. | Training Program on CATIA and GD & T software Tools | 2018-19 | ME | 27 |
| 6. | Talk on Robotics & Automation | 2018-19 | ME | 90 |
| 7. | Industrial Visit at JSW PalntToarangallu, Bellary | 2018-19 | ME | 48 |
| 8. | HIT Quest-2019 | 2018-19 | ME | 27 |
| 9. | Hobby / Mini Project Exhibition Competition | 2018-19 | ME | 27 |
| 10. | Talk on Carreer in Design | 2018-19 | ME | 47 |
| 11. | Project Exhbition 2018-19 | 2018-19 | ME | 115 |
| 12. | Industrial Visit at Shivashakti Sugars Limited Yadravi, Raibag, Karnataka | 2018-19 | ME | 24 |
| 13. | Welcome Function for 3rd Semester Students and Inauguration of AIMSS activities 2019-20 | 2019-20 | ME | 133 |
| 14. | Awareness Programme on Nirnal Filter | 2019-20 | ME | 50 |
| 15. | Mini Anveshana Project Exhibition | 2019-20 | ME | 73 |
| 16. | Industrial visit at Suna Dam, Ganeshaudi Hydel Power | 2019-20 | ME | 50 |
| 17. | One Day Workshop on QA& QC Non Destructive Testing (QA/QC-NDT) | 2019-20 | ME | 41 |
| 18. | Gau Shala Visit at Haragapur, Taluk: Hukkeri, District: Belagavi | 2019-20 | ME | 40 |
| 19. | Career Guidance on Competitive Exam Preparation | 2019-20 | ME | 25 |
| | Industrial visit at Rajeev and Company, Belagavi | 2019-20 | ME | 36 |
| 21. | CATIA and GD&T Training Programme | 2019-20 | ME | 23 |
| 22. | Industrial Visit at AEQUS Special Economic Zone, | 2019-20 | ME | 29 |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

32. Career Opportunities in Mechanical Engineering

33. Career Opportunities in Indian Air force

34. Profile Building and career Guiding

35. Project Exhibition

students

Appu Amar

Engineering

Opportunities

38.

39.

40.

41.

42.

44.

45.

46.

47.

48.

49

50.

Basic

economics

IQAC Academics Student Centric Methods Technical Activities

25

73

73

35

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE 437/A, Hattargi Village, Hukkeri Taluk, Belagavi, Karnataka. Industrial Visit at Abhishek Alloys Private Limited, 23. 2019-20 ME 55 Belagavi One Day Webinar on Exposure of CAD/CAM/CAE for ME 2019-20 80 Better Product Design 25. National Level E-Quiz on Kinematics of Machines 2019-20 ME 87 National Level E-Quiz on Engineering ME 26. 2019-20 85 Thermodynamics National Level E-Quiz on Machine Tools and 27. ME 74 2019-20 **Operations** 28. National Level E-Quiz on CAD/CAM/CIM 2019-20 ME 34 29. 3D Printing Technology 2020-21 ME 25 30. Gate-2021 Coaching 28 2020-21 ME One Week Training Programme on Arduino, IOT 31. ME 2020-21 26 &Robotics Programming

2020-21

2020-21

2020-21

2020-21

ME

ME

ME

ME



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC

Academics

Student Centric

Methods

Technical

Activities

| | For 3 rd Semester students | | | |
|-----|--|---------|----|----|
| 52. | Industry Visit at Hidkal dam power plant, Hidkal | 2021-22 | ME | 10 |
| 53. | Industry Visit at Sangam Sugar Factory, Hidkal | 2021-22 | ME | 10 |
| 54. | Technical Talk on Robot application in Automotive Industry | 2021-22 | ME | 15 |
| 55. | Technical Talk on Design Thinking | 2021-22 | ME | 20 |
| 56. | Tips to Excel in VTU – Semester End Examination (SEE) and Related Grievances | 2021-22 | ME | 20 |
| 57. | Intellectual Rights Awareness Programme For 8th Semester students | 2021-22 | ME | 47 |
| 58. | Industry Visit at Rajeev & Rao Company, Belagavi | 2021-22 | ME | 43 |
| 59. | Industry Visit at Divgi Industries Private Limited, Sirsi | 2021-22 | ME | 43 |
| 60. | Workshop on Complete Entrepreneurship Optimization | 2021-22 | ME | 11 |
| 61. | A Guidance Program on Career opportunities after B.Tech | 2021-22 | ME | 18 |
| 62. | Mini-Project Exhibition-2022 | 2021-22 | ME | 24 |
| 63. | Workshop on "Higher Education in Foreign Universities: Scope, preparation, and scholarships" | 2021-22 | ME | 16 |
| 64. | Project Exhibition-2022 | 2021-22 | ME | 33 |
| 65. | ALOHA Farewell Function -2K22 | 2021-22 | ME | 81 |
| 66. | Future Tech -2022, A Technical Competitions for Polytechnic Students | 2021-22 | ME | 80 |
| 67. | Carrier Guidance Awareness program on SAP | 2021-22 | ME | 31 |
| 68. | Extension Activity on Free D-CET Coaching on Applied Maths and Science | 2022-23 | ME | 22 |
| 69. | A Collaborative hands on STTP on Design and Analysis using MSC Apex Software & Multi body Dynamics (Motion Simulation) | 2022-23 | ME | 28 |
| 70. | SHUBHARAMBHA-22 A welcome function and AIMSS Inauguration | 2022-23 | ME | 48 |
| 71. | A Technical Talk on Professionalism & Engineering | 2022-23 | ME | 48 |
| 72. | A Invited Talk on Career Prospects | 2022-23 | ME | 15 |
| 73. | Training on Placement Aptitude Programme& Career Counseling | 2022-23 | ME | 18 |
| 74. | Technical Talk on CFD Applications in Hemodymanics | 2022-23 | ME | 27 |
| 75. | A UHV Programme Amar Jnanayogi on Shri Siddeshwar Swamiji | 2022-23 | ME | 39 |
| 76. | A Technical Talk on Sustainable Development Goals in Engineering Prospective | 2022-23 | ME | 39 |
| 77. | Professional Body's (IEEE) A Technical Talk on Multidisciplinary Engineering Knowledge through | 2022-23 | ME | 39 |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Technical
Activities

IQAC

| Professional Organization | | | |
|--|---------|-----|------|
| 78. One Day Workshop on Design Thinking | 2022-23 | ME | 18 |
| 79. Project Exhibition-2023 | 2022-23 | ME | 26 |
| 80. HSIT Quest -2023 | 2022-23 | ME | 18 |
| 81. Mini-Project Exhibition-2023 | 2022-23 | ME | 21 |
| 82. Awareness Programme on Electrical Safety Measures | 2022-23 | ME | 44 |
| 83. Invited Talk on How Indians Won the Silicon Valley | 2022-23 | ME | 41 |
| 84. Workshop on PCB Designing | 2018-19 | ECE | 41 |
| | 2018-19 | ECE | 44 |
| 85. IoT Workshop using NodeMCU | 2018-19 | ECE | 28 |
| 86. PLC Programming and Industrial Automation | | | ļ |
| 87. IoT Wokshop using NodeMCU | 2018-19 | ECE | 44 |
| 88. Technical Talk on" Neural Network and Fuzzy logic" | 2019-20 | ECE | 102 |
| 89. Workshop on "Design and Simulation of Microstrip Antenna using HFSS simulation tool" | 2019-20 | ECE | 78 |
| 90. Guest Lecture on "Power Management in Embedded systems" | 2019-20 | ECE | 50 |
| 91. Guest Lecture on "LORA Technology" | 2019-20 | ECE | 53 |
| 92. Technical Talk on"Engineering Future" | 2019-20 | ECE | 39 |
| 93. Exploring Pointers in C | 2019-20 | ECE | 57 |
| 94. Workshop on Python Programming | 2019-20 | ECE | 41 |
| 95. Workshop on PCB Design and Testing | 2019-20 | ECE | 36 |
| 96. Seminar on'''common Interview mistakes and job opportunities in IT'' | 2019-20 | ECE | 29 |
| 97. Webinar on "Role of CISCO network Engineer in IT Industry" | 2019-20 | ECE | 148 |
| 98. Webinar on "Career after covid-19" | 2019-20 | ECE | 1648 |
| 99. Webinar on "You should know about it,To begin your career as software Engineer" | 2019-20 | ECE | 37 |
| 100 Webinar on "Education in Abroad" | 2019-20 | ECE | 327 |
| 101 Webinar on "Art of Success for Civil Services" | 2019-20 | ECE | 234 |
| Webinar on "H1B,covid your American Education Dream" | 2019-20 | ECE | 286 |
| 103 Webinar on "CAT Exam and Career in Management" | 2020-21 | ECE | 136 |
| 104 Webinar on "Professional Communication skills" | 2020-21 | ECE | 200 |
| Webinar on "Mastering Virtual Interviews & Getting First Job" | 2020-21 | ECE | 161 |
| 106 Webinar on Career as officer in Indian Armed Forces" | 2020-21 | ECE | 234 |
| Tachnical Talk on " Deep Learning & Its | | | |
| Applications" | 2021-22 | ECE | 55 |
| 108 Webinar on "project Management and Accounting" | 2021-22 | ECE | 59 |
| Webinar of "Psychological Impact of COVID-19 and Ways to Overcome" | 2021-22 | ECE | 33 |
| 110 Expert talk on "Robotics and Automation | 2021-22 | ECE | 57 |



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC
Academics
Student Centric
Methods
Technical
Activities

111 Workshop on "PCB Design and Testing, 2021-22 **ECE** 45 112 Workshop on " IOT & Arduino IDE" 2021-22 29 **ECE** Hands on training on "Introduction to Arduino 113 2021-22 ECE 21 Programming &Tinkercad" Hands on "Python Tool and Python Programming for 114 2021-22 **ECE** 12 Machine Learning" 115 Wokshop on PCB Design and Testing 2022-23 **ECE** 60 116 Introduction to Artificial Intelligence 2022-23 **ECE** 26 117 Basic Arduino Programming 2022-23 **ECE** 46 118 Recent Trends & Opportunities in VLSI 2022-23 **ECE** 119 Management concepts and B-Plan 2022-23 **ECE** 28 120 STTP on Full Stack Development 2022-23 **ECE** 45 Inauguration of EESSA Activities for the AY 2019-121 20, Welcome function to 3rd Sem students and signing 2018-19 EEE 82 MoU with Infysky, Belagavi Four days workshop on "Basics of MATLAB and 122 2018-19 **EEE** 40 Simulink" 123 Guest Lecture on "Role of Youth in Nation Building" 2018-19 **EEE** 35 124 Group Discussion 2018-19 EEE 45 125 Industrial Visit to 3MW Solar Power Plant at Itnal. 2018-19 **EEE** Industrial Visit to PATCO Transformer Industries, 126 2018-19 **EEE** Nippani. 127 Seminar on "Recent Developments in Smart Grid" 2018-19 **EEE** 79 for Awareness Program 128 Conservation" on the occasion of National Energy **EEE** 300 2018-19 Conservation Week. Awareness Program on "Energy Conservation" on the 2018-19 **EEE** 47 occasion of National Energy Conservation Week. 130 Cooking Without Fire 2018-19 **EEE** 20 131 Clay Modeling 2018-19 **EEE** 18 132 6-aside Futsal Tournament 2018-19 **EEE** 52 133 Poster Presentation 2018-19 **EEE** 26 National Level E-Quiz on "Power System 775 134 2018-19 EEE Engineering" National Level E-Quiz on "Power Electronics & 779 135 2018-19 **EEE** Applications" 136 National Level E-Quiz on "Control Systems" $65\overline{4}$ 2018-19 **EEE** 137 National Level E-Quiz on "Accreditation Process" 2018-19 **EEE** 341 138 National Level E-Quiz on "Electrical Measurement" 2018-19 **EEE** 465 Webinar on "Energy and Environment Problems 139 Facing the Third World and their Probable Solutions 2018-19 **EEE** 247 for Sustainable Development and Poverty Alleviation" Seminar on "Intellectual Property Rights and Patent 140 2020-21 EEE 26 Filing" "AICTE Sponsored STTP-1 on EEE 141 2020-21 67 Battery Management and Control Techniques in EVs"

Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Academics
Student Centric
Methods
Technical
Activities

IQAC

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 142 | "AICTE Sponsored STTP-2 on Battery Management and Control Techniques in EVs" | 2020-21 | EEE | 66 |
|-----|--|---------|-----|-----|
| 143 | "AICTE Sponsored STTP-3 on Battery Management and Control Techniques in EVs" | 2020-21 | EEE | 73 |
| 144 | Rally for Awareness Program on "Energy Conservation" on the occasion of National Energy Conservation Week-2020-21 | 2020-21 | EEE | 280 |
| 145 | Awareness Program on "Energy Conservation" on the occasion of National Energy Conservation Week. | 2020-21 | EEE | 250 |
| 146 | Poster Presentation | 2020-21 | EEE | 29 |
| 147 | Yoga for mental Peace | 2020-21 | EEE | 50 |
| 148 | Webinar on Solar Power Inverter | 2020-21 | EEE | 150 |
| 149 | Inauguration of EESSA activities for AY: 2021-22 and Welcome function to 3 rd sem students | 2021-22 | EEE | 70 |
| 150 | Policy-2020" | 2021-22 | EEE | 30 |
| 151 | MoU with GTTC, Belagavi | 2021-22 | EEE | 30 |
| 152 | Field visit to Government Tool Room and Training Centre (GTTC) | 2021-22 | EEE | 30 |
| 153 | Four Days workshop on "MATLAB & Simulink" | 2021-22 | EEE | 25 |
| | Hands on Session on Motor Rewinding | 2021-22 | EEE | 35 |
| | Seminar on "Fuel Injection System & Engine Basics" | 2021-22 | EEE | 52 |
| | Box Cricket | 2021-22 | EEE | 64 |
| 157 | Cooking without fire | 2021-22 | EEE | 10 |
| 158 | Webinar on "Intellectual Property Rights Awareness Program" | 2021-22 | EEE | 315 |
| 159 | Indoor Sports Events "Carrom, Chess and Table Tennis" | 2021-22 | EEE | 16 |
| 160 | Industrial Visit to Itnal 3MW Solar Power Plant, Itnal. | 2021-22 | EEE | 37 |
| 161 | Alumni Interaction | 2021-22 | EEE | 35 |
| 162 | Cheerio 2K22 Farewell to final year students | 2021-22 | EEE | 71 |
| 163 | Awareness Program on "Final Year Project & its Components" | 2022-23 | EEE | 18 |
| 164 | A FDP on "Pedagogical Initiatives for Effective implementation of VTU-21 Scheme of syllabus for BE Program as per the aspirations of NEP-2020" | 2022-23 | EEE | 40 |
| 165 | Soft Skill Training Program | 2022-23 | EEE | 25 |
| | Awareness program on "Energy Conservation" | 2022-23 | EEE | 25 |
| | Pick and Speak | 2022-23 | EEE | 06 |
| 168 | Inauguration of FESSA activities for AV: 2022-23 and | 2022-23 | EEE | 61 |
| 169 | Technical talk on "Analog & Digital IC Design Flow" | 2022-23 | EEE | 61 |
| 170 | Seminar on "Technological Updates on Renewable Energy Sources" | 2022-23 | EEE | 61 |
| 171 | Clay Modeling | 2022-23 | EEE | 07 |
| | Poster Presentation | 2022-23 | EEE | 19 |
| | | | | 1 |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India.



Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC Academics Student Centric Methods **Technical** Activities

| 173 Parents –Teacher Meeting | 2022-23 | EEE | 18 |
|--|---------|-----|----|
| 174 Group Discussion | 2022-23 | EEE | 10 |
| 175 Box Cricket | 2022-23 | EEE | 63 |
| 176 Quiz Competition | 2022-23 | EEE | 36 |
| An Awareness Program on "Electrical Safety Measures" | 2022-23 | EEE | 92 |
| 178 Webinar on "PCB Design" | 2022-23 | EEE | 66 |
| 179 Parent-Teacher Meeting | 2022-23 | EEE | 09 |
| 180 Express Yourself | 2022-23 | EEE | 20 |
| 181 Orientation Program by Dr. ParashuramBaraki | 2018-19 | CSE | 28 |
| A Technical Talk on "Artificial Intelligence and | | | |
| 182 Machine Learning" by Mr. MuralidharDeshpande, Director, GRP, Infokyam, Bengaluru | 2018-19 | CSE | 86 |
| A Talk on "Tips and Tricks to Crack Campus" Interview 183 by Mr. Anilkumar Senior Software Engineer, Bosch, Bengaluru. | 2018-19 | CSE | 76 |
| A Technical Talk on "Industry Automation and 10T" by 184Mr. SheetalkumarBorganve, Senior Technical Lead, HCL Technologies, Ltd., Bengaluru | 2018-19 | CSE | 86 |
| A 30Hrs.Workshop on "Artificial Intelligence and Machine Learning" by Mr. MuralidharDeshpande, 185 Director, GRP, Infokyam, Bengaluru and Mr. Ashok Wathore, Director, Avirat Knowledge Systems, Pune. | 2018-19 | CSE | 72 |
| 186 'Technical Quiz" Activity Incharge Prof. S B Hosagoudar | 2018-19 | CSE | 78 |
| "Advertisement Show Competition" Activity 187 Incharge Prof. C R Belavi and Prof. S B Hosagoudar | 2018-19 | CSE | 74 |
| "Pick and Speech and Essay Writing 188 Competition" Activity Incharge Prof. S B Hosagoudar. | 2018-19 | CSE | 92 |
| A Technical Talk on " Awareness on Latest Tools" 189 by Mr. Sagar K. Co-Founder, AMSA Embedded Solutions, Hubbali | 2018-19 | CSE | 45 |
| A Two Days workshop on "Practical Hands on Internet of Things" by Mr.Sagar D, Full Stack 190 Developer, AMSA Embedded Solutions, Hubbali&Mr.Vinayak D, Co-Founder, AMSA Embedded Solutions, Hubbali. | 2018-19 | CSE | 48 |
| 191 Organized "Eco Friendly Ganesh Making" competition. | 2019-20 | CSE | 37 |
| 192 Welcome function for 3rd semester students. | 2019-20 | CSE | |
| 193 Technical Talk on "Introduction to Al and ML". | 2019-20 | CSE | 68 |
| 194 "Go GREEN Program" by Making bags with papers. | 2019-20 | CSE | 47 |
| 195 Essay Writing Competition. | 2019-20 | CSE | 35 |



Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC Academics Student Centric Methods **Technical Activities**

| 196 | Organized AayudhaPooja | 2019-20 | CSE | |
|-----|--|---------|-----|-----|
| | Conducted Indoor Games Activity. | 2019-20 | CSE | 80 |
| | Organized Industrial Visit to CDAC, Bengaluru | 2019-20 | CSE | 39 |
| 199 | Organized"COOKING WITHOUT FIRE" competition. | 2019-20 | CSE | 41 |
| 200 | Organized Industrial Visit to BSNL, Belagavi | 2019-20 | CSE | 43 |
| 201 | Conducted Outdoor Games Activity. | 2019-20 | CSE | 80 |
| 202 | Organized National Level Online Quiz on "Python Application Programming". | 2019-20 | CSE | 692 |
| 203 | Completed 15 hour free online Course on "Introduction to Cyber security" offered by Cisco Networking Academy. | 2019-20 | CSE | |
| 204 | National level online" on "Object Oriented Concepts with JAVA" | 2019-20 | CSE | 333 |
| 205 | National level online Quiz on " Automata Theory" | 2019-20 | CSE | 261 |
| 206 | National level online Quiz on "Data structures and Algorithm" | 2019-20 | CSE | 368 |
| 207 | National level online Quiz on "Web Technologies" | 2019-20 | CSE | 255 |
| 208 | Organized National Level Webinar on "Introduction to Web Application Development". | 2020-21 | CSE | 428 |
| 209 | OrganizedNational Level Webinar on "DevOps and Cloud Technology" | 2020-21 | CSE | 213 |
| | Organized a webinar on "Deep Learning" | 2020-21 | CSE | 101 |
| | Webinar on "Skill Requirements & Opportunity for Fresh Software Developer" | 2020-21 | CSE | 100 |
| 212 | Webinar on "Career Goals after Engineering" | 2020-21 | CSE | 31 |
| 213 | National Level Webinar on "Block Chain Technology" in association with Tech Fortune Technologies Bengalore. | 2020-21 | CSE | 250 |
| 214 | Webinar on "Campus Placement Preparation" by Mr. Vinayak, Technical Specialist, Shipco IT Pvt. Ltd. Pune | 2020-21 | CSE | 57 |
| 215 | Completed 20 hours free online Course on "An Intro to the Internet of Things" offered by Cisco Networking Academy. | 2020-21 | CSE | 37 |
| 216 | Technical Webinar on "DevOps and Career Opportunities in DevOps" by Mr.NiteshBhat,SR Software Engineer DevOps Practitioner Intrado, Di tital Media. | 2020-21 | CSE | 87 |
| 217 | Career opportunities in Cyber Security | 2021-22 | CSE | 48 |
| 218 | A Workshop on Machine Learning & Automation Testing | 2021-22 | CSE | 120 |
| 219 | Webinar: An overview of Agile ways of working for software Development | 2021-22 | CSE | 75 |
| 220 | Importance of Computer Science Nidasoshi-591 236, Taq: Hukkeri, Dist: Belag | 2021-22 | CSE | 29 |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India.



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics

Student Centric

Methods

Technical

Activities

| 221 | Training on Python under Skill India | 2021-22 | CSE | 30 |
|------|---|---------|-----|-----|
| 222 | Elocution Competition | 2021-22 | CSE | 35 |
| 223 | Industrial Visit | 2021-22 | CSE | 45 |
| 224 | Indoor Sports Day | 2021-22 | CSE | 70 |
| 225 | Face Painting & Rangoli Competition | 2021-22 | CSE | 50 |
| 226 | A guidance program on CareerOpportunities After B.E. | 2021-22 | CSE | 92 |
| | On Spot Poster Making Competition | 2021-22 | CSE | 50 |
| | International Yoga Day Celebration | 2021-22 | CSE | 51 |
| | Industrial Visit to IISC Bangalore | 2022-23 | CSE | 44 |
| 230 | 32Hours Workshop on "IOT" | 2022-23 | CSE | 50 |
| | Project Exhibition cum Competition | 2022-23 | CSE | 51 |
| | Indoor sports | 2022-23 | CSE | 43 |
| | Mini Project Exhibition cum Competition | 2022-23 | CSE | 59 |
| | Business Ideas/Business Plans Competition | 2022-23 | CSE | 15 |
| 235 | Technical Talk on User Interface Software Testing in | 2022-23 | CSE | 86 |
| 236 | IT Industries Cooking Without Fire Competition | 2022-23 | CSE | 70 |
| 237 | Inauguration of STAC Activities for the 3rd Sem Students | 2022-23 | CSE | |
| 238 | Webinar on Wireless Sensor Networks and As Application | 2022-23 | CSE | 105 |
| 239 | Box Cricket | 2022-23 | CSE | 77 |
| 240 | Technical Essay Writing Competition | 2022-23 | CSE | 13 |
| 241 | "Computer Awareness Program" to the students of Government PU College, Majalatti. | 2022-23 | CSE | 43 |
| 242 | Awareness Program on "IT Industry" to the students of Government High School, Majalatti | 2022-23 | CSE | 27 |
| 243 | | 2022-23 | CSE | 36 |
| | Git&GitHub Workshop | 2022-23 | CSE | 26 |
| 245 | One Day Chart Town training on Wah Designing | 2022-23 | CSE | 45 |
| 246 | DBMS Mini Project Exhibition cum Competition | 2022-23 | CSE | 59 |
| | Box Cricket | 2023-24 | CSE | 181 |
| 248 | Technical Talk by Industry Experts on Latest | 2023-24 | CSE | 77 |
| 2/10 | Cooking Without Fire Competition | 2023-24 | CSE | 13 |
| | Inauguration of STAC Activities for the AY2023- | 2023-24 | | |
| 250 | 24 &Welcome function to 3 rd Sem Students | | CSE | 43 |
| | 5 Days Workshop on Angular JS and Node JS | 2023-24 | CSE | 27 |
| 252 | Webinar on Latest Technology | 2023-24 | CSE | 36 |
| 253 | Coding Competition- "Codeathon-2023" | 2023-24 | CSE | 26 |
| | Industrial Visit to III & V Sem Students | 2023-24 | CSE | 45 |
| 255 | Technical Essay Writing Competition | 2023-24 | CSE | 43 |
| 256 | Infosys Spring Board Certification Course | 2023-24 | CSE | 27 |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric

Methods

Technical

Activities

| 257 | Mini Project Exhibition and Competition | 2023-24 | CSE | 36 |
|------|--|---------|----------------|--------|
| | Talk on Introduction to Engineering and Hands on | | | |
| 258 | session by Prof S.M. Chandrakant, HOD, Civil Engg. | 2022-23 | First Year | 182 |
| | Department on 2 nd December 2022. | _0 | | 102 |
| | Orientation on "State and National Scholarship" by | | | |
| 259 | Dr. Mahesh Huddar, Dean Student Welfare, on 05 th | 2022-23 | First Year | 170 |
| 237 | December 2022. | 2022-23 | That Tear | 170 |
| | Talk on Awareness on "National Innovation and | | | |
| 260 | | 2022.22 | First Year | 165 |
| 200 | Startup policy" by Dr. M. S. Hanagadakar on 6 th December 2022. | 2022-23 | riist i eai | 103 |
| | | | | |
| 261 | Introduction to computer Science Engineering and | 2022 22 | T X | 1.60 |
| 261 | Familiarization of department by Prof. S.V. | 2022-23 | First Year | 168 |
| | Manjaragi, HOD CSE, on 6 th December 2022. | | | |
| | Presentation on "HIT TP Cell and Its Activities by | | | |
| 262 | Prof. N.M. Patel, Dean TP Cell & III Coordinator on | 2022-23 | First Year | 185 |
| | 7 th December 2022. | | | |
| | Introduction to Electronics and Communication Engg. | | | |
| 263 | and Familiarization of department by Dr. R.R. | 2022-23 | First Year | 178 |
| | Maggavi, HOD ECE on 7 th December 2022. | | | |
| | Talk on "Employability opportunities and industrial | | | |
| 264 | scenario" by Dr.S.N. Topannavar, HOD, ME i on 9 th | 2022-23 | First Year | 185 |
| | December 2022. | | | |
| | Talk on "Dynamics of Engineering Education by Dr. | | | |
| 265 | S.C. Kamate, Principal, HIT Nidasoshi on 8th | 2022-23 | First Year | 185 |
| | December 2022. | _0 | | 100 |
| 266 | Presentation on "Our Proud Alumni" | 2022-23 | First Year | 160 |
| | Awareness on "Education loan facility" | 2022-23 | First Year | 150 |
| | Campus Visit on 1st Dec 2022. | 2022-23 | First Year | 140 |
| 200 | Industrial visit to " | 2022-23 | That I can | 140 |
| 260 | | 2022.22 | First Year | 160 |
| 209 | HiranyakeshiSahakariSakkareKarkhaneNiyamit" | 2022-23 | rirst rear | 160 |
| | Sankeshwar on 3 rd December 2022. | | | |
| 270 | Visit to Patrivan: Environmental Awareness on 4 th | 2022-23 | First Year | 180 |
| | December 2022. | | | |
| 271 | Visit to Goshala on 4 th December 2022. | 2022-23 | First Year | 180 |
| 272 | Visit to Shri. Durdundeshwar Math, Nidasoshi on 4 th | 2022-23 | First Year | 180 |
| 212 | December 2022. | 2022 23 | That Tear | 100 |
| | Talk on "Stress Management" by Dr. Sameer. S. | | | |
| 273 | Chate, Professor & Head of Psychiatry, KAHER's J. | 2022-23 | First Year | 140 |
| | N. Medical College Belagavi on 2 nd December 2022. | | | |
| 27.4 | Talk on "Health Awareness" by Dr. Archana Kulkarni, | 2022 22 | T' 4 X | 120 |
| 274 | PHC Ammanagi on 5 th December 2022. | 2022-23 | First Year | 120 |
| | Talk on Awareness on "Social Activities of NSS by | | | 1 -0.0 |
| 275 | Prof. S.S. Patil on 5 th December 2022. | 2022-23 | First Year | 1600 |
| | Talk on "Success through Contribution by Swami | | | |
| 276 | Mahamdhananda, Sri Ramakrishna Math Chennai on | 2022-23 | First Year | 172 |
| 210 | 6 th December 2022. | 2022-23 | I II St. I Cai | 1/2 |
| | U DOCUMENT 2022. | | | |



Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC Academics Student Centric Methods **Technical Activities**

| December 2022. Talk on "How to be successful in life" by Prof. G.M. Zulapi. ME Department on 8th December 2022. Talk on "Applications of Mathematics in Engineering" by Dr. S. L. Patil Asst. Prof. First Year Department on 25-05- 2023 from 3:45 pm to 5:15 pm. Talk on "Resume Writing" by Dr. Mahesh Huddar, Dean Student Welfare on 26-05-2023 from 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "GITHub" by Prof. Prasanna Patil, Asst. Prof. CSE Department, on 27-05-2023 at 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. Manwade, First Year Coordinator on 29-05-2023 from 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm Talk on Talk on Talk on 29-05-2023 at 3:45 pm to 2022-23 First Year 1 2022-23 First Year 1 2022-23 First Year 1 | 165 175 180 |
|--|-------------------|
| Talk on "How to be successful in life" by Prof. G.M. Zulapi. ME Department on 8th December 2022. Talk on "Applications of Mathematics in Engineering" by Dr. S. L. Patil Asst. Prof. First Year Department on 25-05- 2023 from 3:45 pm to 5:15 pm. Talk on "Resume Writing" by Dr. Mahesh Huddar, Dean Student Welfare on 26-05-2023 from 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "GITHub" by Prof. Prasanna Patil, Asst. Prof. CSE Department, on 27-05-2023 at 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. 282 Manwade, First Year Coordinator on 29-05-2023 from 2022-23 First Year 1 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm 5:15 pm First Year 1 | 180 |
| Zulapi. ME Department on 8th December 2022. Talk on "Applications of Mathematics in Engineering" by Dr. S. L. Patil Asst. Prof. First Year Department on 25-05- 2023 from 3:45 pm to 5:15 pm. Talk on "Resume Writing" by Dr. Mahesh Huddar, 280 Dean Student Welfare on 26-05-2023 from 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "GITHub" by Prof. Prasanna Patil, Asst. Prof. 281 CSE Department, on 27-05-2023 at 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. 282 Manwade, First Year Coordinator on 29-05-2023 from 2022-23 First Year 1 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm Tist Year 1 2022-23 First Year 1 2000 pm to 3:30 pm. | 180 |
| Talk on "Applications of Mathematics in Engineering" by Dr. S. L. Patil Asst. Prof. First Year Department on 25-05- 2023 from 3:45 pm to 5:15 pm. Talk on "Resume Writing" by Dr. Mahesh Huddar, 280 Dean Student Welfare on 26-05-2023 from 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "GITHub" by Prof. Prasanna Patil, Asst. Prof. CSE Department, on 27-05-2023 at 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. 282 Manwade, First Year Coordinator on 29-05-2023 from 2022-23 First Year 1 Talk on "Importance of renewable energy" Dr. K. M. 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm Talk on "Resume Writing" by Dr. Mahesh Huddar, 2022-23 First Year 1 2022-23 First Year 1 2022-23 First Year 1 2022-23 First Year 1 | 180 |
| by Dr. S. L. Patil Asst. Prof. First Year Department on 25-05- 2023 from 3:45 pm to 5:15 pm. Talk on "Resume Writing" by Dr. Mahesh Huddar, 280 Dean Student Welfare on 26-05-2023 from 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "GITHub" by Prof. Prasanna Patil, Asst. Prof. 281 CSE Department, on 27-05-2023 at 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. 282 Manwade, First Year Coordinator on 29-05-2023 from 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm First Year 1 2022-23 First Year 1 | |
| on 25-05- 2023 from 3:45 pm to 5:15 pm. Talk on "Resume Writing" by Dr. Mahesh Huddar, Dean Student Welfare on 26-05-2023 from 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "GITHub" by Prof. Prasanna Patil, Asst. Prof. 281 CSE Department, on 27-05-2023 at 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. 282 Manwade, First Year Coordinator on 29-05-2023 from 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm Tirst Year 1 5:15 pm | |
| Talk on "Resume Writing" by Dr. Mahesh Huddar, Dean Student Welfare on 26-05-2023 from 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "GITHub" by Prof. Prasanna Patil, Asst. Prof. CSE Department, on 27-05-2023 at 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. Manwade, First Year Coordinator on 29-05-2023 from 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm Tink on "Resume Writing" by Dr. Mahesh Huddar, 2022-23 First Year 1 2022-23 First Year 1 2022-23 First Year 1 2022-23 First Year 1 5:15 pm | 85 |
| 280 Dean Student Welfare on 26-05-2023 from 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "GITHub" by Prof. Prasanna Patil, Asst. Prof. 281 CSE Department, on 27-05-2023 at 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. 282 Manwade, First Year Coordinator on 29-05-2023 from 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm Tirst Year 1 2022-23 First Year 1 2022-23 First Year 1 2022-23 First Year 1 2022-23 First Year 1 | 85 |
| to 3:30 pm and 3:45 pm to 5:15 pm Talk on "GITHub" by Prof. Prasanna Patil, Asst. Prof. 281 CSE Department, on 27-05-2023 at 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. 282 Manwade, First Year Coordinator on 29-05-2023 from 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm Tisk on "Importance of Price of Pri | 85 |
| Talk on "GITHub" by Prof. Prasanna Patil, Asst. Prof. 281 CSE Department, on 27-05-2023 at 2:00 pm to 3:30 pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. 282 Manwade, First Year Coordinator on 29-05-2023 from 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm Talk on "GITHub" by Prof. Prasanna Patil, Asst. Prof. 2022-23 First Year 1 2022-23 First Year 1 2022-23 First Year 1 | . 00 |
| 281 CSE Department, on 27-05-2023 at 2:00 pm to 3:30 2022-23 First Year 1 pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. 282 Manwade, First Year Coordinator on 29-05-2023 from 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm First Year 1 2022-23 First Year 1 2022-23 First Year 1 2022-23 First Year 1 | |
| pm and 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. 282 Manwade, First Year Coordinator on 29-05-2023 from 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm First Year 1 2022-23 First Year 1 | |
| Talk on "Data Science for Engineers" Dr. K. B. Manwade, First Year Coordinator on 29-05-2023 from 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm Talk on "Data Science for Engineers" Dr. K. B. 2022-23 First Year 1 2022-23 First Year 1 | 165 |
| 282 Manwade, First Year Coordinator on 29-05-2023 from 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm First Year 1 2022-23 First Year 1 | |
| 2:00 pm to 3:30 pm. Talk on "Importance of renewable energy" Dr. K. M. 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm Tink on "Importance of renewable energy" Dr. K. M. 2022-23 First Year 1 | |
| Talk on "Importance of renewable energy" Dr. K. M. Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 5:15 pm Talk on "Importance of renewable energy" Dr. K. M. 2022-23 First Year 1 | 185 |
| 283 Akkoli, Dean Research on 29-05-2023 at 3:45 pm to 2022-23 First Year 1 5:15 pm | |
| 5:15 pm | |
| | 170 |
| Talls on "Donafita of a finite in the control of the the | |
| Talk on "Benefits of soft skills in placements" by Prof. | |
| 284 P. V. Patil, Training & Placement Officer, on 30-05- 2022-23 First Year 2 | 200 |
| 2023 at 2:00 pm to 3:30 pm | |
| Talk on "Evaluation of programming languages" by | |
| | 172 |
| Engineering on 31-05-2023 at 2:00 pm to 3:30 pm | |
| Talk on "Recent trends in civil engineering" by Prof. | |
| 286 S. M. Chandrakanth, HOD, Civil Engineering 2022-23 First Year 1 | 165 |
| Department on 31-05-2023 from 3:45 pm to 5:15 pm | |
| Talk on "Arduino programming simulation using | |
| tinkercad" by Dr. R. R. Maggavi, Dean Academics & | 105 |
| HOD, ECE Department on 01-06-2023 3:45 pm to 2022-23 First Year 1 | 185 |
| 5:15 pm | |
| Talk on "Health awareness among students" by Dr. | |
| 288 Soumya Sajjan, CHC Ammanagi, on 02-06-2023, 2022-23 First Year 1 | 190 |
| from 2 pm to 3:30 pm | |
| Talk on "Millstones for engineering students", by Dr. | |
| | 185 |
| to 5:15 pm. | |
| Awareness on "Plantation and tree adaptation by Prof. | |
| | |
| on 30/5/2023 from 3:45 pm to 5:15 pm | 195 |
| Talk on "Universal Human Values" by Prof. G. B. | 195 |
| | 195 |
| Nidasoshi," on 01-06-2023 from 2 pm to 3:30 pm. | 195 |
| 292 International Yoga Day celebration 2022-23 First Year 1 | |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC
Academics
Student Centric
Methods
Technical
Activities

| 293 | Talk on "Nation building attitudes and behaviors" Dr. S. N. Topannavar, HOD, ME Department on 03-06-2023 from 3:45 pm to 5:15 pm. | 2022-23 | First Year | 185 |
|-----|--|-----------|------------|-----|
| 294 | Poster presentation competition on "World Environment Day" by the activity coordinator Dr. M. S. Hangadakar, Associate Professor, First Year Department on 05-06-2023 from 2 pm to 5:15 pm | 2022-23 | First Year | 75 |
| 295 | Talk on "How Indians Won the Silicon Valley by Dr. Shivanand Kanavi on 30 th june 2023 | 2022-23 | First Year | 175 |
| 296 | Orientation on "Academic & Non Academic Matters" by Dr.K.M.Akkoli, I year Coordinator, on 14 th December 2021. | 2021 - 22 | First Year | 75 |
| 297 | Talk on "Applications of Science in Engineering" by Prof. Vishwanath V. Koladur, Govt. P.U. College, Majalatti on 14 th December 2021. | 2021 - 22 | First Year | 87 |
| 298 | Talk on "NEP implementation to Engineering Education by Dr. S.N. Topannavar, HOD, Mech. Department on 14 th December 2021. | 2021 - 22 | First Year | 84 |
| 299 | "Awareness on Education loan facility" by Shri Balawant Kulkarni, DGM, Canara Bank Chikodi on 14 th December 2021. | 2021 - 22 | First Year | 81 |
| 300 | Presentation on "Our Proud Alumni" by Prof. O. B.Heddurshetti, Chairman Alumni Association on 15 th December 2021. | 2021 - 22 | First Year | 83 |
| 301 | Talk on "Awareness on NEP -2020" by Dr. S.C. Kamate, Principal, HSIT, Nidasoshi, on 16 th December 2021. | 2021 - 22 | First Year | 96 |
| 302 | Talk on "Language Proficiency" by Prof. Sneha B. Nagaonkar, on 17 th December 2021. | 2021 - 22 | First Year | 87 |
| 303 | Orientation on "State and National Scholarship" by Dr. Mahesh Huddar, Dean Student Welfare, on 22 nd December 2021. | 2021 - 22 | First Year | 68 |
| 304 | Presentation on "HSIT TP Cell & its Activities" by Prof. N.M.Patel, Dean TP Cell, Placement Officer, on 23 rd December 2021. | 2021 - 22 | First Year | 88 |
| 305 | Talk on Importance of Accreditation in Engineering Education" by Prof. D.N. Inamdar, on 24 th December 2021. | 2021 - 22 | First Year | 81 |
| 306 | Talk on "Health Awareness and COVID-19 precautions" by Dr. Soumya Sajjan, , CHC Ammanagi on 15 th December 2021. | 2021 - 22 | First Year | 79 |
| 307 | Talk on "Universal Human Values" by Prof. B. G. Patil, S.S. Arts & TP Science College on 16 th December 2021. | 2021 - 22 | First Year | 79 |
| 308 | Talk on "Current Environmental Problems and Remedies" by M. S. Hanagadakar on 18 th December | 2021 - 22 | First Year | 85 |



Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC Academics Student Centric Methods Technical Activities

| Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE |
|---|
|---|

| | 2021. | | | |
|-----|---|-------------|------------|----|
| 309 | Talk on "Universal Human Values -Art of Living & Meditation" by Dr. Shital V. Bhide, Dental Surgeon, Counselor, Sankeshwar on 23 rd December 2021. | 2021 - 22 | First Year | 83 |
| 310 | Campus Visit & Visit to Shri. Durdundeshwar Math on 13 th December 2021. | 2021 - 22 | First Year | 90 |
| 311 | "Awareness on "Social activities of NSS" by Prof. R.R. Patil, NSS Programme Officer on 17 th December 2021. | 2021 - 22 | First Year | 91 |
| 312 | Industry visit to "HiranyakeshiSahakariSakkareKarkhaneNiyamit" Samkeshwar on 18 th December 2021 . | 2021 - 22 | First Year | 90 |
| 313 | Talk on "Health and COVID-19 Awareness, SOP to be followed" by Vijay Hattargi, PHC Ammanagi on 16 th December 2020. | 2020 - 21 | First Year | 80 |
| 314 | Talk on "Inter- Personal Skills" by Prof. Sneha A. Nagaonkar, on 16 th December 2020. | 2020 - 21 | First Year | 85 |
| 315 | Talk on "Art of Living & Healthy Life Styles" by Dr. Sheetal V. Bhide. Dentist, Sankeshwar on 17 th December 2020. | 2020 - 21 | First Year | 85 |
| 316 | Presentation on "Human Relations & Moral Values" by Prof. B. G. Patil, S.S. Arts & TP Science College on 17 th December 2020. | 2020 - 21 | First Year | 85 |
| 317 | "Awareness Programme on "Red-Cross & Its Activities" by Prof. Vinay Kumar Hittalamani, Nodal Officer, VTU, Belagavi on 18 th December 2020. | 2020 - 21 | First Year | 68 |
| 318 | Talk on "Skills for success " by Shri Veeresh Patil, National Award Winner, Govt. P.U. College, Sadalaga on 18 th December 2020. | 2020 - 21 | First Year | 88 |
| 319 | "Waste Management & Environment Protection". By Dr. M. S. Hanagadakar on 19 th December 2020. | 2020 - 21 | First Year | 85 |
| 320 | Talk on "Engineering Education" by Dr.K.M.Akkoli, I year Coordinator, on 16 th December 2020. | 2020 - 21 | First Year | 87 |
| 321 | Tips on "Resume & Report Writing" by Prof. N.M.Patel, Placement Officer, on 17 th December 2020. | 2020 - 21 | First Year | 83 |
| 322 | Presentation on "Our Proud Alumni" by Prof. O. | 2020 - 21 | First Year | 73 |
| 323 | Campus View & Visit to Shri. Durdundeshar Math Nidasoshi&Ashirvachana by Shri ShivalingeshwarMahaswaji on 13 th August 2019. | 2019 - 2020 | First Year | 46 |
| 324 | "Swacch Bharat" NSS activity and campaign organized by Institute NSS wing on 14 th August 2019 and 16 th August 2019. | 2019 - 2020 | First Year | 78 |
| 325 | Independence Day Celebration & Visit to flood | 2019 - 2020 | First Year | 81 |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics

Student Centric

Methods

Technical

Activities

| | affected areas & involving in relief operations on 15 th August 2019. | | | |
|-----|--|-------------|------------|----|
| 326 | Creative Arts Programme: Poster Presentation & Pottery" on UHV theme on 22 th August 2019. | 2019 - 2020 | First Year | 85 |
| 327 | "Group Discussion" on UHV themes on 23 rd August 2019. | 2019 - 2020 | First Year | 75 |
| 328 | Activity "Pick & Speech" & "Essay Writing on UHV on 23 rd August 2019. | 2019 - 2020 | First Year | 56 |
| 329 | 24th August 2019. | 2019 - 2020 | First Year | 87 |
| 330 | Dr. M. S. Hanagadakar on 1/ ⁴⁴ August 2019. | 2019 - 2020 | First Year | 53 |
| 331 | "Art of Living & Healthy Life Styles" by Dr. Sheetal B. Bhide. Dentist, Sankeshwar on 19 th August 2019. | 2019 - 2020 | First Year | 85 |
| 332 | Awareness Programme on "Red-Cross & Its Activities" by Prof. Vinay Kumar Hittalamani, Nodal Officer, VTU, Belagavi on 20 th August 2019. | 2019 - 2020 | First Year | 77 |
| 333 | "Youth Role through Red-Cross Society" by Shri Ashok Badami, Patron Red-Cross &Dr.S.B.Kulkarni, Chairman, Red-Cross on 20 th August 2019. | 2019 - 2020 | First Year | 79 |
| 334 | Presentation on "Human Relations & Moral Values" by Prof.B.G.Patil, S.S. Arts & TP Science College on 20 th August 2019. | 2019 - 2020 | First Year | 89 |
| 335 | Short Cinema Show on "Ethical Values & Patriotism" by Prof. Mahesh Huddar& Prof. Mahesh Hipparagi on 22 th August 2019. | 2019 - 2020 | First Year | 85 |
| 336 | Awareness Programme on "Waste Plastic & Its Effects" by Prof. Kushal Ambli on 24 th August 2019 | 2019 - 2020 | First Year | 85 |
| 337 | "Watering the Plants & Campus Cleaning" on 12 th February 2020. | 2019 - 2020 | First Year | 66 |
| 338 | | 2019 - 2020 | First Year | 85 |
| 339 | "Mini / Hobby Project Exhibition" on 20 th February 2020. | 2019 - 2020 | First Year | 53 |
| 340 | Presentation on "Preamble of Indian Constitution" by Shri. M. B. Zirali on 11 th February 2020 | 2019 - 2020 | First Year | 48 |
| 341 | Talk on "Success Ladder" by Prof. S. A. Nagaonkar on 13 th February 2020. | 2019 - 2020 | First Year | 68 |
| 342 | Talk on "Road to Success" by Dr. B. V. Madiggonda on 17 th February 2020. | 2019 - 2020 | First Year | 48 |
| 343 | Talk on "SWOT" Analysis by Dr. S. N. Topannavar by 14th February 2020. | 2019 - 2020 | First Year | 70 |
| 344 | Talk on "Interview Skills" by Prof. N. M. Patel 17th February 2020. | 2019 - 2020 | First Year | 85 |
| 345 | National Science day celebration cum valedictory of Induction programme phase-II-Motivation talk by | 2019 - 2020 | First Year | 65 |
| | | | | · |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC Academics Student Centric Methods Technical Activities

| | Shri. A.P. Kulkarni on 28th February 2020. | | | |
|-----|--|-------------|------------|-----|
| 346 | Dr. S.C. Kamate on 28 th February 2020. | 2019 - 2020 | First Year | 65 |
| 347 | World without Engineers by Prof. D. N. Inamdar | 2019 - 2020 | First Year | 55 |
| 348 | Introduction to College, Vision & Mission, Objectives | 2018 - 2019 | First Year | 160 |
| 349 | Proficiency Module-I Lecture on oral Communications | 2018 - 2019 | First Year | 160 |
| | Yoga & Meditation | 2018 - 2019 | First Year | 160 |
| | Freshers Welcome Function-Inauguration | 2018 - 2019 | First Year | 160 |
| 352 | Flag Hosting, Patriotic Speech and Songs | 2018 - 2019 | First Year | 160 |
| 353 | Universal Human Values - II | 2018 - 2019 | First Year | 160 |
| 354 | A visit to a Three-Century-Old Temple (Shri Durudundeeshwar Math, Nidasoshi) | 2018 - 2019 | First Year | 160 |
| 355 | A visit to shri Mallikarjuna Temple, Ammanagi | 2018 - 2019 | First Year | 160 |
| | Visit to Patri Bana | 2018 - 2019 | First Year | 160 |
| | A visit to a Cowpen (Gaushala) | 2018 - 2019 | First Year | 160 |
| | Library Activity | 2018 - 2019 | First Year | 160 |
| | Universal Human Values - III | 2018 - 2019 | First Year | 160 |
| | ABCD of Life | 2018 - 2019 | First Year | 160 |
| | Universal Human Values - IV | 2018 - 2019 | First Year | 160 |
| 362 | Awareness of Bad Habits by Dr. Soumya Naikwadi | 2018 - 2019 | First Year | 160 |
| | Lead Activities | 2018 - 2019 | First Year | 160 |
| | Spiritual values by Dr. Sheetal Bhide | 2018 - 2019 | First Year | 160 |
| 365 | Universal Human Values - V by S.S. Mangavi | 2018 - 2019 | First Year | 160 |
| 366 | Ethics Human values and Social responsibilities by Shri. Devaraj Aras and Shri. Vijayakumar Hiremath | 2018 - 2019 | First Year | 160 |
| 367 | Become an Engineer not an Engineering Graduate by Prof. B.R. Umarani | 2018 - 2019 | First Year | 160 |
| 368 | Valedictory Function of Induction program | 2018 - 2019 | First Year | 160 |

Dr.S.N.Topannavar IQAC Coordinator **IQAC** Coordinator Hirasugar Institute of Technology Nidasoshi-591236



Hirasugar Institute of Technology Nidasoshi-591 236

100 00 m

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC

Academics

Student Centric

Methods

Non-Technical

Activities

List of Social, Sensitizing, Sports, Spiritual and Yoga Activities conducted to promote Participative Learning during the AYs: 2018-19 to Till Date

Institute is permanently affiliated to the Visvesvaraya Technological University, Belgaum. In view of NEP-2020 based revised curriculum of the affiliated university, the institute has facilitated all resources to conduct social, sensitizing, sports, spiritual and yoga activities to promote activity-based learning (ABL) by the participation of students. The students are participating in the below activities to inculcate organizing & managing skills and emerging & ability enhancement skills and knowledge, to help society, and to maintain good physical and mental health.

| S.N. | Activity | Academic | Dept. | No. of |
|------|--|----------|-----------|--------------|
| | | Year | | students |
| | | | | participated |
| 1. | Juice for Perfect Health on 06/06/2019 | 2018-19 | Red Cross | 65 |
| 2. | International Yoga Day on 21/06/2019 | 2018-19 | Red Cross | 54 |
| 3. | Diabetes Awareness Program on 24/09/2019 | 2018-19 | Red Cross | 87 |
| 4. | Blood Donation Camp on 24/10/2019 | 2018-19 | Red Cross | 45 |
| 5. | Plantation of Tree on22/11/2019 | 2018-19 | Red Cross | 27 |
| 6. | AIDS Awareness Program on 05/12/2019 | 2018-19 | Red Cross | 104 |
| 7. | Celebration of Dr. B.R Ambedkar Jayanti and | | | |
| | Shramadhana on 14/04/2018 | 2018-19 | NSS | 50 |
| 8. | Watering the Plants on 15/04/2018 | 2018-19 | NSS | 60 |
| 9. | Shramadhana Work at HSIT New Boys Hostel on | | | |
| | 05/05/2018 | 2018-19 | NSS | 67 |
| 10. | "Ready to Vote" campaigning on pre election voting | | | |
| | awareness to the public of Nidasoshi village on | | | |
| | 09/05/2018 | 2018-19 | NSS | 64 |
| 11. | Shramadhana Work at HSIT Girls Hostel and Admin | | | |
| | Building on 13/05/2018 | 2018-19 | NSS | 54 |
| 12. | Yoga Day Celebration on 21/06/2018 | 2018-19 | NSS | 68 |
| 13. | Celebration of World Environment Day on 14/07/2018 | 2018-19 | NSS | 64 |
| 14. | Awareness Programme on "Information Technology | | | |
| | Act and Usage of Social Media" on 08/08/2018 | 2018-19 | NSS | 74 |
| 15. | Shramadhana Work at BCA College Campus on | | | |
| | 12/08/2018 | 2018-19 | NSS | 85 |
| 16. | Independence Day Celebration on 15/08/2018 | 2018-19 | NSS | 78 |
| 17. | Sadbhavana Divas on 20/08/2018 | 2018-19 | NSS | 80 |
| 18. | Kodagu Flood Relief Fund Collection on 20/08/2018 | 2018-19 | NSS | 80 |
| 19. | Shramadhana Work at Patribana near campus on | | | |
| | 25/08/2018 | 2018-19 | NSS | 88 |
| 20. | Teachers Day Celebration on 05/09/2018 | 2018-19 | NSS | 95 |
| 21. | Engineers Day is celebrated in the honour of Sir | 2018-19 | NSS | 92 |

Table 1

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC

Academics

Student Centric

Methods

Non-Technical

Activities

Mokshagondam Visveswaria on 15/09/2018 Celebration of NSS Day on 24/09/2018 22. 2018-19 NSS 65 Shramadhana Work at the campus of Mallikarjuna 23. Temple of Ammanagi village on 30/09/2018 87 2018-19 NSS Celebration of Gandhi Jayanti and Swacch Barat 24. Abhiyana on 02/10/2018 2018-19 NSS 87 Blood Donation Camp on 11/10/2018 2018-19 NSS 90 25. Shramadhana Work at HSIT campus on 20/10/2018 26. 2018-19 NSS 92 Karnataka Rajyotsava Celebration and Shramadhana 27. Work on 01/11/2018 2018-19 NSS 86 Shramadhana Work at BCA college campus on 28. 06/11/2018 2018-19 NSS 78 Shramadhana Work at Nidasoshi Gate on 13/11/2018 29. 2018-19 NSS 82 Bicycle Rally for Awareness of Girl Child Education 30. on 03/12/2018 2018-19 NSS 73 Awareness on Rain Water Harvesting on 13/12/2018 30 31. 2018-19 NSS Celebration of Republic Day on 26/01/2019 2018-19 56 32. NSS Candle Light March to tribute to departed sole of our 33. soldier who died in the terror attack at Pulwama on 18/02/2019 2018-19 NSS 64 Voters Day Celebration on 19/02/2019 2018-19 NSS 82 34. Shramadhana Work in Hukkeri Taluka's 9th Kannada Sahitya Sammelana on 24/02/2019 2018-19 NSS 76 VVPAT voting machine demo for parliament election 36. 2019 on 26/02/2019 NSS 85 2018-19 Lecture on Dr.DVG's Mankutimmana Kagga by Shri 37. G.S.Natesh on 02/03/2019 2018-19 NSS 73 Celebration of Science Day on 13/03/2019 2018-19 NSS 55 38. Shramadhana Work at HSIT main gate on 16/03/2019 2018-19 NSS 68 NSS activity closing for the academic year 2018-19 on 40. 18/03/2019 NSS 89 2018-19 Celebration of Dr. B.R. Ambedkar Jayanti on 14-04-41. 2019-20 NSS 35 Fire Safety awareness program on 16-04-2019 2019-20 74 NSS Shramadhana work Watering to plants on 21-04-2019 2019-20 NSS 75 43. 44. Shramadhana work on 05-05-2019 2019-20 NSS 75 Celebration of Basava Jayanthi on 07-05-2019 75 2019-20 NSS 45. Shramadhana work on 19-05-2019 2019-20 NSS 67 46. Celebration of World Environment Day on 5-6-2019 NSS 25 47. 2019-20 Awareness lecture on "Juice for the perfect health" on 48. 06-06-2019 2019-20 NSS 24 Celebration of International Yoga Day on 21-06-2019 2019-20 NSS 49. 54 Food Distribution at Flood Relief Camp on 09-08-2019 2019-20 NSS 63 Shramadhana work During Induction Program on 13-08-2019 2019-20 NSS 77 52. Celebration of 73rd Independence Day on 15-08-2019 2019-20 NSS 85

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC

Academics

Student Centric

Methods

Non-Technical

Activities

| Sammadhan work on 16-08-2019 2019-20 NSS 54 | | | 1 | | |
|--|-----|---|---------|-----------|----------|
| area on 17-08-2019 | 53. | | 2019-20 | NSS | 54 |
| 55. Celebration of Sadbhavana Diwas on 20-08-2019 2019-20 NSS 75 56. Teachers Day Celebration on 06-09-2019 2019-20 NSS 35 57. Engineer's day Celebration with tree plantation on 15-09-2019 2019-20 NSS 86 58. Awareness program to PUC Students on "Academic Guidance and Usage of Social Media" on eve of NSS Day Celebration on 24-09-2019 2019-20 NSS 24 59. Shramadhan Work on 29-09-2019 at BCA college campus 2019-20 NSS 84 60. Plastic Free Campus Program on eve of 150th Gandhi Jayanti and 115th Lal Bahadur Shastri Jayantiya celebration on 02-10-2019 2019-20 NSS 50 61. Shramadhan Work on 12-10-2019 at Community Health Centre, Nidasoshi Ammanagi campus 2019-20 NSS 50 62. Shramadhan Work on 20-10-2019 at Canteen campus 2019-20 NSS 86 63. Voluntary Blood Donation Camp on 23-10-2019 2019-20 NSS 86 64. Celebration of 63rd Karnataka Rajyotsava on 01-11-2019 2019-20 NSS 86 65. Shramadhan Work on 17-11-2019 nearby Govt. NSS 76 | 54. | Distribution of daily household items at flood victim | | | |
| 56. Teachers Day Celebration on 06-09-2019 2019-20 NSS 35 57. Engineer's day Celebration with tree plantation on 15-09-2019 2019-20 NSS 86 58. Awareness program to PUC Students on "Academic Guidance and Usage of Social Media" on eve of NSS Day Celebration on 24-09-2019 2019-20 NSS 24 59. Shramadhan Work on 29-09-2019 at BCA college campus 2019-20 NSS 84 60. Plastic Free Campus Program on eve of 150th Gandhi Jayanti and 115th Lal Bahadur Shastri Jayantiya celebration on 02-10-2019 2019-20 NSS 50 61. Shramadhan Work on 12-10-2019 at Community Health Centre, Nidasoshi/Ammanagi campus 2019-20 NSS 86 62. Shramadhan Work on 02-10-2019 at Canteen campus 2019-20 NSS 86 63. Voluntary Blood Donation Camp on 23-10-2019 2019-20 NSS 86 64. Celebration of 63rd Karnataka Rajyotsava on 01-11-2019 2019-20 NSS 86 65. Shramadhan Work on 10-11-2019 nearby Govt. Hospital 2019-20 NSS 76 66. Sharamadhan Work on 17-11-2019, Nidasoshi Village 2019-20 NSS 74 67. Celebration of 70th Constitution Day on 26-11-2019 2019-20 NSS 74 68. Awareness rally on Energy Conservation on 20-12-2019 2019-20 NSS 73 69. Celebration of Voters Day on 25-01-2020 2019-20 NSS 73 70. Celebration of 71st Republic Day on 26-01-2020 2019-20 NSS 70 71. Shramadhan Work on 17-03-2020 2019-20 NSS 70 72. Shramadhan Work on 15-02-2020 2019-20 NSS 70 73. Shramadhan Work on 17-03-2020 2019-20 NSS 70 74. Last Shramadhan Work on 17-03-2020 2019-20 NSS 70 75. National Deworming Day on 10-02-2020 2019-20 NSS 65 76. Womens Day on 7-3-2020 2019-20 Red Cross 75 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 75 78. Plantation of Trees on 11-9-2020 2019-20 Red Cross 75 78. Plantation of "International Yoga Day" on 21/06/2020 2020-21 NSS 70 79. Celebration of "International Yoga Day" | | | 2019-20 | NSS | 80 |
| 57. Engineer's day Celebration with tree plantation on 15-09-2019 2019-20 NSS 86 58. Awareness program to PUC Students on "Academic Guidance and Usage of Social Media" on eve of NSS Day Celebration on 24-09-2019 2019-20 NSS 24 59. Shramadhan Work on 29-09-2019 at BCA college campus 2019-20 NSS 84 60. Plastic Free Campus Program on eve of 150th Gandhi Jayanti and 115th Lal Bahadur Shastri Jayantiya celebration on 02-10-2019 2019-20 NSS 50 61. Shramadhan Work on 12-10-2019 at Community Health Centre, Midasoshi/Ammanangi campus 2019-20 NSS 50 62. Shramadhan Work on 20-10-2019 at Canteen campus 2019-20 NSS 86 63. Voluntary Blood Donation Camp on 23-10-2019 2019-20 NSS 86 64. Celebration of 63rd Karnataka Rajyotsava on 01-11-2019 2019-20 NSS 86 65. Shramadhan Work on 10-11-2019 nearby Govt. Hospital 2019-20 NSS 76 66. Sharamadhan Work on 17-11-2019 Nidasoshi Village 2019-20 NSS 76 67. Celebration of 70th Constitution Day on 26-11-2019 | 55. | Celebration of Sadbhavana Diwas on 20-08-2019 | 2019-20 | NSS | |
| 09-2019 | 56. | Teachers Day Celebration on 06-09-2019 | 2019-20 | NSS | 35 |
| Guidance and Üsage of Social Media" on eve of NSS Day Celebration on 24-09-2019 2019-20 NSS 24 | 57. | | 2019-20 | NSS | 86 |
| Day Celebration on 24-09-2019 2019-20 NSS 24 | 58. | <u> </u> | | | |
| Shramadhan Work on 29-09-2019 at BCA college campus 2019-20 NSS 84 | | | 2019-20 | NSS | 24 |
| Campus | 59 | | 2017 20 | 1100 | 2-4 |
| 60. Plastic Free Campus Program on eve of 150th Gandhi Jayanti and 115th Lal Bahadur Shastri Jayantiya celebration on 02-10-2019 61. Shramadhan Work on 12-10-2019 at Community Health Centre, Nidasoshi/Ammanagi campus 62. Shramadhan Work on 20-10-2019 at Canteen campus 63. Voluntary Blood Donation Camp on 23-10-2019 64. Celebration of 63rd Karnataka Rajyotsava on 01-11- 2019 65. Shramadhan Work on 10-11-2019 nearby Govt. Hospital 66. Sharamadhan Work on 17-11-2019, Nidasoshi Village 67. Celebration of 70th Constitution Day on 26-11-2019 68. Awareness rally on Energy Conservation on 20-12- 2019 at Nidasoshi village 69. Celebration of Voters Day on 25-01-2020 69. Celebration of 71st Republic Day on 26-01-2020 70. Celebration of 71st Republic Day on 26-01-2020 71. Shramadhan Work on 15-02-2020 72. Shramadhan Work on 10-02-2020 73. Shramadhan Work on 07-03-2020 74. Last Shramadhan Work on the Academic Year 2019- 20 on 08-03-2020 75. National Deworming Day on 10-02-2020 76. Womens Day on 7-3-2020 77. Plantation of Trees on 11-9-2020 80. Celebration of Trees on 11-9-2020 80. Celebration of Therenational Yoga Day" on 2106/2020 80. Celebration of Therenational Yoga Day" on 21/06/2020 80. Celebration of Tierernational Yoga Day" on 21/06/2020 80. Celebration of Tierernational Yoga Day" on 21/06/2020 80. Celebration of Tierernational Yoga Day" on 21/06/2020 80. Celebration of Independence Day on 15/08/2020 80. Celebration of Independence Day on 15 | 37. | | 2019-20 | NSS | 84 |
| Jayanti and 115th Lal Bahadur Shastri Jayantiya celebration on 02-10-2019 at Community Health Centre, Nidasoshi/Ammanagi campus 2019-20 NSS 92 | 60 | • | 2019 20 | 1100 | 01 |
| Celebration on 02-10-2019 2019-20 NSS 50 | 00. | | | | |
| 61. Shramadhan Work on 12-10-2019 at Community Health Centre,Nidasoshi/Ammanagi campus 2019-20 NSS 92 62. Shramadhan Work on 20-10-2019 at Canteen campus 2019-20 NSS 86 63. Voluntary Blood Donation Camp on 23-10-2019 2019-20 NSS 65 64. Celebration of 63rd Karnataka Rajyotsava on 01-11-2019 2019-20 NSS 86 65. Shramadhan Work on 10-11-2019 nearby Govt. 2019-20 NSS 76 66. Sharamadhan Work on 17-11-2019, Nidasoshi Village 2019-20 NSS 74 67. Celebration of 70th Constitution Day on 26-11-2019 2019-20 NSS 65 68. Awareness rally on Energy Conservation on 20-12-2019 2019-20 NSS 73 69. Celebration of Voters Day on 25-01-2020 2019-20 NSS 78 70. Celebration of 71st Republic Day on 26-01-2020 2019-20 NSS 78 71. Shramadhan Work on 15-02-2020 2019-20 NSS 70 72. Shramadhan Work watering to plants on 16-02-2020 2019-20 NSS | | | 2019-20 | NSS | 50 |
| Health Centre, Nidasoshi/Ammanagi campus 2019-20 NSS 86 | 61. | | | 2100 | |
| 62. Shramadhan Work on 20-10-2019 at Canteen campus 2019-20 NSS 86 63. Voluntary Blood Donation Camp on 23-10-2019 2019-20 NSS 65 64. Celebration of 63rd Karnataka Rajyotsava on 01-11-2019 2019-20 NSS 86 65. Shramadhan Work on 10-11-2019 nearby Govt. 2019-20 NSS 76 66. Sharamadhan Work on 17-11-2019, Nidasoshi Village 2019-20 NSS 74 67. Celebration of 70th Constitution Day on 26-11-2019 2019-20 NSS 65 68. Awareness rally on Energy Conservation on 20-12-2019 at Nidasoshi village 2019-20 NSS 73 69. Celebration of Voters Day on 25-01-2020 2019-20 NSS 78 70. Celebration of T1st Republic Day on 26-01-2020 2019-20 NSS 45 71. Shramadhan Work on 15-02-2020 2019-20 NSS 70 72. Shramadhan Work watering to plants on 16-02-2020 2019-20 NSS 65 74. Last Shramadhan Work for the Academic Year 2019-20 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7- | J., | · · · · · · · · · · · · · · · · · · · | 2019-20 | NSS | 92 |
| 63. Voluntary Blood Donation Camp on 23-10-2019 2019-20 NSS 65 64. Celebration of 63rd Karnataka Rajyotsava on 01-11-2019 2019-20 NSS 86 65. Shramadhan Work on 10-11-2019 nearby Govt. 2019-20 NSS 76 66. Sharamadhan Work on 17-11-2019, Nidasoshi Village 2019-20 NSS 74 67. Celebration of 70th Constitution Day on 26-11-2019 2019-20 NSS 65 68. Awareness rally on Energy Conservation on 20-12-2019 at Nidasoshi village 2019-20 NSS 73 69. Celebration of Voters Day on 25-01-2020 2019-20 NSS 78 70. Celebration of 71st Republic Day on 26-01-2020 2019-20 NSS 45 71. Shramadhan Work on 15-02-2020 2019-20 NSS 84 73. Shramadhan Work watering to plants on 16-02-2020 2019-20 NSS 65 74. Last Shramadhan Work for the Academic Year 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 75 78. Plastic Free Campus on 19-11-2020 2019-20 </td <td>62.</td> <td></td> <td></td> <td></td> <td></td> | 62. | | | | |
| 64. Celebration of 63rd Karnataka Rajyotsava on 01-11- 2019 2019-20 NSS 86 65. Shramadhan Work on 10-11-2019 nearby Govt. Hospital 2019-20 NSS 76 66. Sharamadhan Work on 17-11-2019, Nidasoshi Village 2019-20 NSS 74 67. Celebration of 70th Constitution Day on 26-11-2019 2019-20 NSS 65 68. Awareness rally on Energy Conservation on 20-12- 2019 at Nidasoshi village 2019-20 NSS 73 69. Celebration of Voters Day on 25-01-2020 2019-20 NSS 78 70. Celebration of 71st Republic Day on 26-01-2020 2019-20 NSS 78 71. Shramadhan Work on 15-02-2020 2019-20 NSS 70 72. Shramadhan Work watering to plants on 16-02-2020 2019-20 NSS 84 73. Shramadhan Work on 07-03-2020 2019-20 NSS 84 74. Last Shramadhan Work for the Academic Year 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 93 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 93 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "Morld Environment Day" on 05/06/2020 80 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 109 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 | | | | | |
| 2019 2019-20 NSS 86 | | · · | | - 1.2.2 | |
| 65. Shramadhan Work on 10-11-2019 nearby Govt. Hospital 2019-20 NSS 76 66. Sharamadhan Work on 17-11-2019, Nidasoshi Village 2019-20 NSS 74 67. Celebration of 70th Constitution Day on 26-11-2019 2019-20 NSS 65 68. Awareness rally on Energy Conservation on 20-12-2019 at Nidasoshi village 2019-20 NSS 73 69. Celebration of Voters Day on 25-01-2020 2019-20 NSS 78 70. Celebration of 71st Republic Day on 26-01-2020 2019-20 NSS 45 71. Shramadhan Work on 15-02-2020 2019-20 NSS 70 72. Shramadhan Work watering to plants on 16-02-2020 2019-20 NSS 65 74. Last Shramadhan Work for the Academic Year 2019-20 on 08-03-2020 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 75 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "Morld Environme | | | 2019-20 | NSS | 86 |
| Hospital | 65. | | | | |
| 66. Sharamadhan Work on 17-11-2019 , Nidasoshi Village 2019-20 NSS 74 67. Celebration of 70th Constitution Day on 26-11-2019 2019-20 NSS 65 68. Awareness rally on Energy Conservation on 20-12-2019 at Nidasoshi village 2019-20 NSS 73 69. Celebration of Voters Day on 25-01-2020 2019-20 NSS 78 70. Celebration of 71st Republic Day on 26-01-2020 2019-20 NSS 45 71. Shramadhan Work on 15-02-2020 2019-20 NSS 70 72. Shramadhan Work watering to plants on 16-02-2020 2019-20 NSS 84 73. Shramadhan Work on 07-03-2020 2019-20 NSS 65 74. Last Shramadhan Work for the Academic Year 2019-20 on 08-03-2020 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 93 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 <td< td=""><td></td><td>•</td><td>2019-20</td><td>NSS</td><td>76</td></td<> | | • | 2019-20 | NSS | 76 |
| 67. Celebration of 70th Constitution Day on 26-11-2019 2019-20 NSS 65 68. Awareness rally on Energy Conservation on 20-12-2019 at Nidasoshi village 2019-20 NSS 73 69. Celebration of Voters Day on 25-01-2020 2019-20 NSS 78 70. Celebration of 71st Republic Day on 26-01-2020 2019-20 NSS 45 71. Shramadhan Work on 15-02-2020 2019-20 NSS 70 72. Shramadhan Work watering to plants on 16-02-2020 2019-20 NSS 84 73. Shramadhan Work on 07-03-2020 2019-20 NSS 65 74. Last Shramadhan Work for the Academic Year 2019-20 on 08-03-2020 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 93 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 60 80. Celebration of Independence Day on 15/08/2020 | 66. | | | | |
| 68. Awareness rally on Energy Conservation on 20-12- 2019 at Nidasoshi village 69. Celebration of Voters Day on 25-01-2020 70. Celebration of 71st Republic Day on 26-01-2020 70. Shramadhan Work on 15-02-2020 71. Shramadhan Work on 15-02-2020 72. Shramadhan Work watering to plants on 16-02-2020 73. Shramadhan Work on 07-03-2020 74. Last Shramadhan Work for the Academic Year 2019-20 75. National Deworming Day on 10-02-2020 76. Womens Day on 7-3-2020 77. Plantation of Trees on 11-9-2020 78. Plastic Free Campus on 19-11-20220 79. Celebration of "World Environment Day" on 05/06/2020 80. Celebration of "International Yoga Day" on 21/06/2020 81. Shramadhan work at HSIT College on 08/08/2020 820-21 820-20-21 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 | | | | | |
| 2019 at Nidasoshi village 2019-20 NSS 73 | | | | | <u> </u> |
| 69. Celebration of Voters Day on 25-01-2020 2019-20 NSS 78 70. Celebration of 71st Republic Day on 26-01-2020 2019-20 NSS 45 71. Shramadhan Work on 15-02-2020 2019-20 NSS 70 72. Shramadhan Work watering to plants on 16-02-2020 2019-20 NSS 84 73. Shramadhan Work on 07-03-2020 2019-20 NSS 65 74. Last Shramadhan Work for the Academic Year 2019-20 on 08-03-2020 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 93 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 60 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 60 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 | | • | 2019-20 | NSS | 73 |
| 70. Celebration of 71st Republic Day on 26-01-2020 2019-20 NSS 45 71. Shramadhan Work on 15-02-2020 2019-20 NSS 70 72. Shramadhan Work watering to plants on 16-02-2020 2019-20 NSS 84 73. Shramadhan Work on 07-03-2020 2019-20 NSS 65 74. Last Shramadhan Work for the Academic Year 2019-20 on 08-03-2020 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 93 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 75 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 60 | 69. | | 2019-20 | NSS | 78 |
| 71. Shramadhan Work on 15-02-2020 2019-20 NSS 70 72. Shramadhan Work watering to plants on 16-02-2020 2019-20 NSS 84 73. Shramadhan Work on 07-03-2020 2019-20 NSS 65 74. Last Shramadhan Work for the Academic Year 2019-20 on 08-03-2020 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 93 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 75 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 60 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 2020-21 NSS< | | | | | |
| 72. Shramadhan Work watering to plants on 16-02-2020 2019-20 NSS 84 73. Shramadhan Work on 07-03-2020 2019-20 NSS 65 74. Last Shramadhan Work for the Academic Year 2019-20 on 08-03-2020 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 93 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 75 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 2020-21 NSS 60 | | | | | |
| 73. Shramadhan Work on 07-03-2020 2019-20 NSS 65 74. Last Shramadhan Work for the Academic Year 2019-20 on 08-03-2020 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 93 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 75 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 2020-21 NSS 60 | 72. | Shramadhan Work watering to plants on 16-02-2020 | · | | 84 |
| 74. Last Shramadhan Work for the Academic Year 2019- 20 on 08-03-2020 2019-20 NSS 65 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 93 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 75 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 2020-21 NSS 60 | | <u> </u> | | | |
| 75. National Deworming Day on 10-02-2020 2019-20 Red Cross 75 76. Womens Day on 7-3-2020 2019-20 Red Cross 93 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 75 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 2020-21 NSS 60 | | | | | |
| 76. Womens Day on 7-3-2020 2019-20 Red Cross 93 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 75 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 2020-21 NSS 60 | | 20 on 08-03-2020 | 2019-20 | NSS | 65 |
| 77. Plantation of Trees on 11-9-2020 2019-20 Red Cross 58 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 75 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 2020-21 NSS 60 | 75. | National Deworming Day on 10-02-2020 | 2019-20 | Red Cross | 75 |
| 78. Plastic Free Campus on 19-11-20220 2019-20 Red Cross 62 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 75 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 2020-21 NSS 60 | 76. | Womens Day on 7-3-2020 | 2019-20 | Red Cross | 93 |
| 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 75 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 2020-21 NSS 60 | 77. | | 2019-20 | Red Cross | 58 |
| 79. Celebration of "World Environment Day" on 05/06/2020 2020-21 NSS 75 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 2020-21 NSS 60 | 78. | Plastic Free Campus on 19-11-20220 | 2019-20 | Red Cross | 62 |
| 80. Celebration of "International Yoga Day" on 21/06/2020 2020-21 NSS 60 81. Shramadhana work at HSIT College on 08/08/2020 2020-21 NSS 70 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 2020-21 NSS 60 | 79. | * | | NSS | 75 |
| 81.Shramadhana work at HSIT College on 08/08/20202020-21NSS7082.Celebration of Independence Day on 15/08/20202020-21NSS10983.Campus Cleaning Shramadhana work During Induction Program on 16/08/20202020-21NSS60 | | <u> </u> | | | |
| 82. Celebration of Independence Day on 15/08/2020 2020-21 NSS 109 83. Campus Cleaning Shramadhana work During Induction Program on 16/08/2020 000 000 000 000 000 000 000 000 00 | 80. | Celebration of "International Yoga Day" on 21/06/2020 | 2020-21 | NSS | 60 |
| 83. Campus Cleaning Shramadhana work During Induction 2020-21 NSS 60 Program on 16/08/2020 | 81. | | 2020-21 | NSS | 70 |
| 83. Campus Cleaning Shramadhana work During Induction 2020-21 NSS 60 Program on 16/08/2020 | 82. | Celebration of Independence Day on 15/08/2020 | 2020-21 | NSS | 109 |
| | 83. | Campus Cleaning Shramadhana work During Induction | 2020-21 | NSS | 60 |
| OT. I MANUHAYAHA IZIWAN ULI 4.7/00/4040 1/40/0-4/1 1/ | 84. | Sadbhavana Diwas on 29/08/2020 | 2020-21 | NSS | 72 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC

Academics

Student Centric

Methods

Non-Technical

Activities

| 85. | Shramadhana work at Govt. Hospital near HSIT Gate on 30/08/2020 | 2020-21 | NSS | 65 |
|------|--|---------|-----------|-----|
| 86. | Celebration of "Teachers Day" on 05/09/2020 | 2020-21 | NSS | 115 |
| 87. | Felicitation to Ku.Priyanka Kambale for Securing 670th Rank in UPSC Exam on 05/09/2020 | 2020-21 | NSS | 80 |
| 88. | Shramadhana work at College Campus on 06/09/2020 | 2020-21 | NSS | 70 |
| 89. | Plantation of Trees on 11/09/2020 | 2020-21 | Red Cross | 50 |
| 90. | Shramadhana work at Girls Hostel on 12/09/2020 | 2020-21 | NSS | 65 |
| 91. | Celebration of "Engineer's day" on 15/09/2020 | 2020-21 | NSS | 85 |
| 92. | Shramadhana work at garden area on 20/09/2020 | 2020-21 | NSS | 60 |
| 93. | Celebration of "NSS Day" on 24/09/2020 | 2020-21 | NSS | 75 |
| 94. | Shramadhana work at Diploma College on 27/09/2020 | 2020-21 | NSS | 50 |
| 95. | Swachha Bharat Abhiyan on eve of 151st Gandhi Jayanti and 116th Lal Bahadur Shastri Jayanti | 2020-21 | NSS | 120 |
| | celebration on 02/10/2020 | | | |
| 96. | Shramadhana work ground side on 10/10/2020 | 2020-21 | NSS | 78 |
| 97. | Shramadhana work at Govt. Hospital Nidasoshi gate on 11/10/2020 | 2020-21 | NSS | 60 |
| 98. | Visit to Goshala at Hargapurgad on 17/10/2020 | 2020-21 | NSS | 65 |
| 99. | Celebration of 64 th Karnataka Rajyotshava & | 2020-21 | NSS | 150 |
| | Shramadhana work on 01/11/2020 | | - 1.2.2 | |
| 100. | | 2020-21 | NSS | 90 |
| 101. | • | 2020-21 | NSS | 55 |
| 102. | Awareness on "COVID-19 RTPCR Test" on 17/11/2020 | 2020-21 | NSS | 80 |
| 103. | Plastic Free Campus on 19/11/2020 | 2020-21 | Red Cross | 60 |
| | Organized Covid-19 Checkup Camp on 20/11/2020 & 21/11/2020 | 2020-21 | Red Cross | 110 |
| 105. | Shramadhan Work at Nidasoshi Village on 22/11/2020 | 2020-21 | NSS | 70 |
| | Celebration of 71st Constitution Day on 26/11/2020 | 2020-21 | NSS | 145 |
| 107. | Shramadhana work at College Campus on 28/11/2020 | 2020-21 | NSS | 70 |
| | Awareness rally on Energy Conservation at Nidasoshi Village on 14/12/2020 | 2020-21 | NSS | 60 |
| 109. | Talk on Healthy Life Style on 23/01/2021 | 2020-21 | Red Cross | 75 |
| | Celebration of "Voters Day" on 25/01/2021 | 2020-21 | NSS | 90 |
| | Celebration of 72st Republic Day on 26/01/2021 | 2020-21 | NSS | 155 |
| | Celebration of "World Cancer Day" on 04/02/2021 | 2020-21 | NSS | 85 |
| | Shramadhana work Removing waste and dry grass at HSIT College on 06/02/2021 | 2020-21 | NSS | 60 |
| 114. | Plantation of Trees on 05/02/2021 | 2020-21 | Red Cross | 80 |
| | Talk on Youth Red Cross Activity on 06/02/2021 | 2020-21 | Red Cross | 110 |
| | Shramadhana work watering Plants at HSIT College on 21/02/2021 | 2020-21 | NSS | 85 |
| 117. | Shramadhana work on 07/03/2021 | 2020-21 | NSS | 60 |
| | NSS 2019-20 Activities Closing on 14/03/2021 | 2020-21 | NSS | 75 |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric

Methods

Non-Technical

Activities

| 119. | Village and Household Survey in the adopted villages and SEG project proposal submission for holistic | 2020-21 | NSS & UBA Volunteers | 126 |
|------|---|------------------|-------------------------|-----|
| | development through technological interventions | | | |
| 120. | COVID-19 Vaccination camp for Staff and students at College | 2021-22 | Red cross | 250 |
| 121. | | 2021-22 | NSS | 100 |
| | | 2021-22 | NSS | 100 |
| | Amrit Mahotsav | | | |
| 123. | Celebration og Sadbhavana Diwas at college | 2021-22 | NSS | 86 |
| | Celebration of "Teachers Day" | 2021-22 | NSS | 93 |
| 125. | | 2021-22 | NSS | 100 |
| | Unnat Bharat Abhiyan | | | |
| 126. | Engineer's Day Celebration | 2021-22 | NSS | 74 |
| 127. | | 2021-22 | NSS | 86 |
| | Jayanti Celebration. | | | |
| 128. | Organised Shramadan work | 2021-22 | NSS | 99 |
| 129. | Celebration of 65th Karnataka Rajyotsava | 2021-22 | NSS | 79 |
| 130. | Organised Shramadan work | 2021-22 | NSS | 92 |
| | Organised Shramadan work | 2021-22 | NSS | 52 |
| | Voluntary Blood Donation Drive | 2021-22 | NSS | 54 |
| 133. | Organised Shramadan work | 2021-22 | NSS | 52 |
| | 159th Swami Vivekananda Jayanti | 2021-22 | NSS | 92 |
| | Road Safety Awarness rally | 2021-22 | NSS | 53 |
| | Celebration of 72 st Republic Day. | 2021-22 | NSS | 52 |
| | Organised Shramadan work | 2021-22 | NSS | 55 |
| | Organised Shramadan work and Closing of NSS | 2021-22 | NSS | 78 |
| | regular activities for the year 2021-22 | | | |
| 139. | Red Cross Day Celebration | 2021-22 | Red Cross | 70 |
| | The 3rd Semester Branch Entry and AIMSS | 2021-22 | AIMSS | 73 |
| | Inauguration Function on 28/10/2021 | | | |
| 141. | Appu Amar on 13/11/2021 | 2021-22 | AIMSS | 102 |
| | Virtual Training Programme on Nation Building | 2021-22 | AIMSS | 11 |
| | Attitudes & Behaviors Under CSR for Staff from | | | |
| | 13/12/2021 To 17/12/2021 | | | |
| 143. | Virtual Training Programme on Nation Building | 2021-22 | AIMSS | 29 |
| | Attitudes & Behaviors Under CSR for Students from | | | |
| | 20/12/2021 To | | | |
| | 24/12/2021 | | | |
| 144. | Poster presentation on Theme: Energy & Its economics | 2021-22 | AIMSS | 23 |
| | on 20/01/2022 | | | |
| 145. | ALOHA Farewell Function -2K22 on 22/07/2022 | 2021-22 | AIMSS | 92 |
| 146. | Book Distribution to Bright Students on 22/07/2022 | 2021-22 | AIMSS | 92 |
| 147. | Future Tech -2022, A Technical Competitions for | 2021-22 | AIMSS | 80 |
| | Polytechnic Students on 29/07/2022 | | | |
| 148. | 1 6 | 2021-22 | AIMSS | 42 |
| Ì | on26/08/2022 | | | _ |
| | Nidasoshi-591 236, Taq: Hukkeri, Dist: Bela | gavi. Karnataka. | India. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric

Methods

Non-Technical

Activities

| 149. | Online session on Women health and Hygiene by Mrs. Nitya Chaudhary CSR Executive, Unicharm India Chief Guest: Dr. (Smt.) Laximbai Ainapure, Artist Salhalli | 2021-22 | Women Empowerment Cell | 100 |
|------|--|---------|---|-----|
| | Dist.: Ramdurga Guest of honor: Smt. Sangeeta Bagewadi, Artist Salahalli Dist.: Ramdurga on 11/03/2022 | | | |
| 150. | Helping local schools to achieve good results and enhancing their enrollment in Higher/Technical/ Vocational Education and enhancing their communication skills | 2021-22 | HM, D. L. Khot Highschool Hebbal | 11 |
| 151. | Creating awareness and facilitating digital money transactions | 2021-22 | PDO, Gram Panchayat Karyalaya, Nidasoshi | 2 |
| 152. | Creating awareness and facilitating digital money transactions | 2021-22 | PDO, Gram Panchayat Karyalaya, Nidasoshi | 3 |
| 153. | Prepare and implement a plan to improve health parameters of villagers | 2021-22 | PDO, Gram Panchayat Karyalaya, Nidasoshi | 3 |
| 154. | Creating awareness on waste management | 2021-22 | PDO, Gram Panchayat Karyalaya, Nidasoshi | 1 |
| 155. | Helping local schools to achieve good result and enhance their enrollment in Higher/Technical/ Vocational Education | 2021-22 | HM, Appanagouda Education Society KHPS Sankeshwar | 1 |
| 156. | Helping local schools to achieve good result and enhance their enrollment in Higher/Technical/Vocational Education | 2021-22 | HM.Hukkerimath Shivabasaveshwar Highschool, Haveri | 1 |
| 157. | Helping local schools to achieve good result and enhance their enrollment in Higher/Technical/ Vocational Education | 2021-22 | HM Govt. Urdu Girls School Sankeshwar | 1 |
| 158. | Creating awareness on waste management | 2021-22 | PDO, Gram Panchayat Karyalaya, Nidasoshi | 1 |
| 159. | COVID-19 Vaccination Awerness Programme | 2021-22 | Gram Panchayat Karyalaya, | 4 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric

Methods

Non-Technical

Activities

| | | | Nidasoshi | |
|------|---|---------|------------------------|----|
| 160. | Creating awareness and facilitating digital money | 2021-22 | PDO, Gram | 6 |
| | transactions | | Panchayat | |
| | | | Karyalaya, | |
| | | | Nidasoshi | |
| 161. | Creating awareness and facilitating digital money | 2021-22 | PDO, Gram | 7 |
| | transactions | | Panchayat | |
| | | | Karyalaya, | |
| | | | Nidasoshi | |
| 162. | Creating awareness on rain water harvesting | 2021-22 | PDO, Gram | 6 |
| | | | Panchayat | |
| | | | Karyalaya, | |
| | | | Nidasoshi | |
| 163. | Creating awareness on rain water harvesting | 2021-22 | PDO, Gram | 3 |
| | | | Panchayat | |
| | | | Karyalaya, | |
| | | | Nidasoshi | |
| 164. | Creating awareness on solid waste management | 2021-22 | PDO, Gram | 2 |
| | | | Panchayat | |
| | | | Karyalaya, | |
| 1.05 | D: :-114 | 2021 22 | Nidasoshi | |
| 165. | Digital Money Transaction | 2021-22 | Gram Panchayat | 5 |
| | | | Karyalaya, | |
| 1.00 | Disite1 Manage Transportion | 2021 22 | Nidasoshi | 1 |
| 166. | Digital Money Transaction | 2021-22 | Gram Panchayat | 1 |
| | | | Karyalaya, Kakamari | |
| 167. | Digital Money Transaction | 2021-22 | Gram Panchayat | 2 |
| 107. | Digital Money Transaction | 2021-22 | Karyalaya, | 2 |
| | | | Nagnur | |
| 168. | Digital Money Transaction | 2021-22 | Gram Panchayat | 1 |
| 100. | Digital Money Transaction | 2021 22 | Karyalaya, Adi | 1 |
| 169. | How to Achieve Good Results in Board Exams | 2021-22 | SJD High School, | 17 |
| 10). | Tiow to Fieldeve Good Results in Board Exams | 2021 22 | Nidasoshi | 17 |
| 170. | Rain Water Harvesting | 2021-22 | Primary School, | 4 |
| | 8 | | Nidasoshi | |
| 171. | Rain Water Harvesting | 2021-22 | Primary School, | 2 |
| | | | Sankeshwar | |
| 172. | Awareness activity for Rural Entrepreneurship | 2021-22 | Gram Panchayat | 12 |
| | | | Karyalaya, | |
| | | | Nidasoshi | |
| 173. | Swachh Bharat Abhiyan | 2021-22 | Bus Stand, | 7 |
| | | | Market | |
| | | | Sankeshwar | |
| 174. | Swachh Bharat Abhiyan | 2021-22 | Gram Panchayat, | 7 |
| | | | Nidasoshi | |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric

Methods

Non-Technical

Activities

| Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE | |
|---|--|
| | |

| 175. | Waste Management | 2021-22 | Gram Panchayat, | 2 |
|------|---|---------|--|-----|
| 176. | COVID-19 Vaccination Awerness Programme | 2021-22 | Nidasoshi Gram Panchayat Karyalaya, | 62 |
| 177. | Facilitating 100% digitiesed money transactions | 2021-22 | Nidasoshi Gram Panchayat Karyalaya, Nidasoshi | 56 |
| 178. | Awareness on Rain water harvesting | 2021-22 | Gram Panchayat Karyalaya, Nidasoshi | 62 |
| 179. | Helping local Highschool students | 2021-22 | Govt, Higher Primary Kannada Girls School Nidasoshi | 4 |
| 180. | Swachh Bharat Abhiyan | 2021-22 | Gram Panchayat Karyalaya, Nidasoshi | 24 |
| 181. | Awareness on waste management | 2021-22 | Gram Panchayat Karyalaya, Nidasoshi | 25 |
| 182. | Rain Water Harvesting | 2021-22 | Gram Panchayat Karyalaya, Nidasoshi & Akkol | 30 |
| 183. | Digital Money transaction | 2021-22 | Gram Panchayat Karyalaya, Yelimunnoli | 33 |
| 184. | Helping Local School | 2021-22 | Local Schools | 24 |
| 185. | Health Parameters | 2021-22 | Gram Panchayat Karyalaya, Ammanagi | 13 |
| 186. | Swachha Bharat Abhiyan | 2021-22 | Gram Panchayat Karyalaya, Nidasoshi & Akkol | 16 |
| 187. | Waste Management | 2021-22 | Govt. Hospital Benivad | 6 |
| 188. | Promotion of Technology | 2021-22 | Gram Panchayat Karyalaya, Nidasoshi | 1 |
| 189. | Webinar on "Intellectual Property Rights" A Awareness Program by Mr. Nikhil Ranjan, Examiner of Patents & Design Officer, NIPAM, Patent Office Kolkatta | 2022-23 | IPR Cell | 315 |
| 190. | Intellectual Rights Awareness Programme for 3rd semester students and staff | 2022-23 | IPR Cell | 26 |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric

Methods

Non-Technical

Activities

| Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE |
|---|
| |

| 191. | Intellectual Rights Awareness Programme for 8th semester students and staff | 2022-23 | IPR Cell | 58 |
|------|---|---------|-----------|-----|
| 102 | Workshop on "Entrepreneurship" | 2021-22 | ED Cell | 150 |
| | Seminar on "Complete Entrepreneurship Optimization" | 2021-22 | ED Cell | 110 |
| | | 2021-22 | | |
| | One day Workshop on "Entrepreneurship" | + | ED Cell | 119 |
| | One day Seminar on "Intellectual Property and patent Filing" | 2020-22 | IPR Cell | 107 |
| 196. | An invited talk on "IPR Practices in industries & its Benefits" | 2019-20 | IPR Cell | 140 |
| 197. | Entrepreneurship Awareness Camp | 2019-20 | ED Cell | 75 |
| 198. | An invited talk on "Intellectual Property Rights-IPR" | 2019-20 | IPR Cell | 125 |
| | Celebration of Dr. B.R. Ambedkar Jayanti | 2022-23 | NSS | 84 |
| | Celebration of Basava Jayanthi | 2022-23 | NSS | 84 |
| 201. | • | 2022-23 | NSS | 87 |
| 202. | Shramdaan | 2022-23 | NSS | 85 |
| | Celebration of World Environment Day | 2022-23 | NSS | 83 |
| | Celebration of International Yoga Day | 2022-23 | NSS | 85 |
| | Shramdaan | 2022-23 | NSS | 89 |
| | Motivational talk on ""Mind Magic" Power of the subconscious mind | 2022-23 | NSS | 85 |
| 207. | Shramdaan | 2022-23 | NSS | 87 |
| | Inspirational talk on "Professionalism in Education" | 2022-23 | NSS | 87 |
| | Shramdaan | 2022-23 | NSS | 84 |
| 210. | | 2022-23 | NSS | 89 |
| 211. | Teachers Day Celebration | 2022-23 | NSS | 87 |
| | Engineer's day Celebration. | 2022-23 | NSS | 87 |
| | Shramdaan | 2022-23 | NSS | 85 |
| 214. | 153sd Gandhi Jayanti and 118th Lal Bahadur Shastri | 2022-23 | NSS | 0.5 |
| | Jayanti celebration | | | 80 |
| | Shramdaan | 2022-23 | NSS | 83 |
| | Ayudha Pooja | 2022-23 | NSS | 85 |
| | Valmiki Jayanti. | 2022-23 | NSS | 82 |
| | Celebration of 68th Karnataka Rajyotsava | 2022-23 | NSS | 85 |
| | Celebration of 74th Constitution Day | 2022-23 | NSS | 83 |
| 220. | Voter ID (EPIC) registration drive. | 2022-23 | NSS | 83 |
| 221. | Shramdaan | 2022-23 | NSS | 80 |
| 222. | Blood Donation Camp & Awareness Program on 'Blood Donation' on eve of World Health Day. | 2022-23 | NSS | 78 |
| 223. | | 2022-23 | Red-Cross | 75 |
| 224. | Dengue Awareness Program | 2022-23 | Red-Cross | 93 |
| | Eye Checkup camp | 2022-23 | Red-Cross | 58 |
| | Eye Donation and Eye Health Care | 2022-23 | Red-Cross | 62 |
| | International Women's Day Celebration | 2022-23 | Red-Cross | 75 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| IQAC |
|-----------------|
| Academics |
| Student Centric |
| Methods |
| Non-Technical |
| Activities |

| 228. Mental Health A must for All | 2022-23 | Red-Cross | 60 |
|-----------------------------------|---------|-----------|----|
| 229. National De-worming Day | 2022-23 | Red-Cross | 70 |
| 230. Red Cross Day Celebration | 2022-23 | Red-Cross | 58 |

List of Women Empowerment Cell activities conducted to promote Participative Learning during the AYs: 2018-19 to Till Date

The institute has Women Empowerment Cell and following sensitizing and extension activities are conducted to promote activity-based learning (ABL). The students are participating in the below Women Empowerment Cell activities to empower women to help society.

| S.N. | Activity | Academic Year | No. of students participated |
|------|---|---------------|------------------------------|
| 1 | Talk on "Role of Women in Nation Building by Dr. Vijayalaxmi I. Balekundri on the occasion of Women's Day-2023 | 2022-23 | 240 |
| 2. | Legal Awareness program in association with District Legal Aid Cell, Bar council of Sankeshwar, Senior Municipal Magistrate | 2022-23 | 196 |
| 3. | Awareness talk on HIV | 2022-23 | 95 |
| 4 | Awareness talk on health issues | 2022-23 | 158 |
| 5 | Rangoli Competition on "Azadi ka Amrut Mahostav" | 2022-23 | 22 |
| 6 | Essay competition on "Role of Women in Freedom Struggle" | 2022-23 | 29 |
| 7 | Elocution Competition on "Our History our Pride" | 2022-23 | 10 |
| 8 | Cooking without Fire | 2022-23 | 28 |
| 9 | Online session on"Women Menstrual and Hygiene Mangement" | 2021-22 | 100 |
| 10 | Dandiya for all girls and ladies staff | 2021-22 | 75 |
| 11 | Talk on Health & Hygiene by Dr. Soumya Sajjan, MBBS, DGO, CMO of CHC Ammanagi. | 2020-21 | 135 |
| 12 | Talk on "Role of Women in Modern Technology" by Dr. Maitreyini G. Gadigeppagoudar, RCU, Belagavi | 2019-20 | 158 |
| 13 | Talk on "Women in Modern Agriculture" by Smt. Kavita Umashankar Mishra, Agriculturalist, Raichur | 2018-19 | 178 |
| 14 | Awareness talk on human values by Dr. Prasannakshi, Sanskrit Professor, Mysuru | 2018-19 | 114 |
| 15 | Awareness on "Legitimate Provisions for Women" by Prof. D.B. Solapure, Principal, law college Chikodi. | 2018-19 | 131 |
| 16 | Awareness on "Women safety and sexual harassment" through Flash -mob by Final year girls | 2018-19 | 250 |

00000 00000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC

Academics

Student Centric

Methods

Non-Technical

Activities

List of Sports and Yoga Activities conducted to promote Participative Learning during the AYs:2018-19 to Till Date

The institute is facilitated all resources to conduct sports and yoga activities to promote activity-based learning (ABL) the participation of students. The students are participating in the below activities to maintain good physical and mental health.

| S.N. | Activity | Academic Year | Dept. | No. of students |
|------|----------------------|---------------|---------------|-----------------|
| | | | | participated |
| 1. | 100 Mtr Running | 2018-19 | Sports & Yoga | 12 |
| 2. | 200 Mtr Runn0ng | 2018-19 | Sports & Yoga | 20 |
| 3. | 400 Mtr. Running | 2018-19 | Sports & Yoga | 27 |
| 4. | 800 Mtr Running | 2018-19 | Sports & Yoga | 26 |
| 5. | 1500 Mtr Running | 2018-19 | Sports & Yoga | 15 |
| 6. | 5000 Mtr. Running | 2018-19 | Sports & Yoga | 14 |
| 7. | Shot-Put Throw | 2018-19 | Sports & Yoga | 35 |
| 8. | Javelin Throw | 2018-19 | Sports & Yoga | 36 |
| 9. | Discuss throw | 2018-19 | Sports & Yoga | 31 |
| 10. | Long Jump | 2018-19 | Sports & Yoga | 22 |
| 11. | Chess | 2018-19 | Sports & Yoga | 35 |
| 12. | Corram Single | 2018-19 | Sports & Yoga | 35 |
| 13. | Carom Doubles | 2018-19 | Sports & Yoga | 35 |
| 14. | Table Tennis Single | 2018-19 | Sports & Yoga | 35 |
| 15. | Table Tennis Doubles | 2018-19 | Sports & Yoga | 35 |
| 16. | Foot Ball | 2018-19 | Sports & Yoga | 90 |
| 17. | Volley Ball | 2018-19 | Sports & Yoga | 60 |
| 18. | Hand Ball | 2018-19 | Sports & Yoga | 15 |
| 19. | Cross country | 2018-19 | Sports & Yoga | 02 |
| 20. | swimming | 2018-19 | Sports & Yoga | 01 |
| 21. | Yoga | 2018-19 | Sports & Yoga | 10 |
| 22. | Youth Festival | 2018-19 | Sports & Yoga | 15 |
| 23. | cricket | 2018-19 | Sports & Yoga | 16 |
| 24. | Badminton | 2018-19 | Sports & Yoga | 5 |
| 25. | Table Tennis | 2018-19 | Sports & Yoga | 05 |
| 26. | 100 Mtr Running | 2019-20 | Sports & Yoga | 25 |
| 27. | 200 Mtr Runn0ng | 2019-20 | Sports & Yoga | 25 |
| 28. | 400 Mtr. Running | 2019-20 | Sports & Yoga | 25 |

SJPN Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Non-Technical
Activities

| 29. | 800 Mtr Running | 2019-20 | Sports & Yoga | 20 |
|-----|------------------------------------|--------------------|-----------------------------|----|
| 30. | 1500 Mtr Running | 2019-20 | Sports & Yoga | 25 |
| 31. | 5000 Mtr. Running | 2019-20 | Sports & Yoga | 20 |
| 32. | Shot-Put Throw | 2019-20 | Sports & Yoga | 45 |
| 33. | Javelin Throw | 2019-20 | Sports & Yoga | 40 |
| 34. | Discuss throw | 2019-20 | Sports & Yoga | 40 |
| 35. | Long Jump | 2019-20 | Sports & Yoga | 35 |
| 36. | Chess | 2019-20 | Sports & Yoga | 35 |
| 37. | Corram Single | 2019-20 | Sports & Yoga | 35 |
| 38. | Carom Doubles | 2019-20 | Sports & Yoga | 35 |
| 39. | Table Tennis Single | 2019-20 | Sports & Yoga | 35 |
| 40. | Table Tennis Doubles | 2019-20 | Sports & Yoga | 35 |
| 41. | Foot Ball | 2019-20 | Sports & Yoga | 90 |
| 42. | | | Sports & Yoga | 60 |
| 43. | Volley Ball | 2019-20 2021-22 | | 28 |
| 44. | 100 Mtr Running 200 Mtr Runn0ng | 2021-22 | Sports & Yoga Sports & Yoga | 28 |
| 45. | E | 2021-22 | | 35 |
| | 400 Mtr. Running | | Sports & Yoga | 25 |
| 46. | 800 Mtr Running | 2021-22 | Sports & Yoga | |
| 47. | 1500 Mtr Running | 2021-22 | Sports & Yoga | 20 |
| 48. | 5000 Mtr. Running | 2021-22 | Sports & Yoga | 20 |
| 49. | Shot-Put Throw | 2021-22 | Sports & Yoga | 45 |
| 50. | Javelin Throw | 2021-22 | Sports & Yoga | 47 |
| 51. | Discuss throw | 2021-22 | Sports & Yoga | 40 |
| 52. | Long Jump | 2021-22 | Sports & Yoga | 43 |
| 53. | Chess | 2021-22 | Sports & Yoga | 16 |
| 54. | Corram Single | 2021-22 | Sports & Yoga | 38 |
| 55. | Carom Doubles | 2021-22 | Sports & Yoga | 20 |
| 56. | Table Tennis Single | 2021-22 | Sports & Yoga | 23 |
| 57. | Table Tennis Doubles | 2021-22 | Sports & Yoga | 17 |
| 58. | Foot Ball | 2021-22 | Sports & Yoga | 90 |
| 59. | Volley Ball | 2021-22 | Sports & Yoga | 60 |
| 60. | Cricket | 2021-22 | Sports & Yoga | 16 |
| 61. | Cross -counary | 2021-22 | Sports & Yoga | 02 |
| 62. | Kabaddi | 2021-22 | Sports & Yoga | 12 |
| 63. | wrestling | 2021-22 | Sports & Yoga | 01 |
| 64. | Yoga | 2021-22 | Sports & Yoga | 8 |
| 65. | Youth Festival | 2021-22 | Sports & Yoga | 10 |
| 66. | 100 Mtr Running | 2022-23 | Sports & Yoga | 18 |
| 67. | 200 Mtr Runn0ng | 2022-33 | Sports & Yoga | 19 |
| 68. | 400 Mtr. Running | 2022-23 | Sports & Yoga | 18 |
| 69. | 800 Mtr Running | 2022-33 | Sports & Yoga | 15 |
| 70. | 1500 Mtr Running | 2022-23 | Sports & Yoga | 15 |

0000

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

| IQAC | |
|------------------------|---|
| Academics | I |
| Student Centric | |
| Methods | |
| Non-Technical | |
| Activities | |

| 66. | 100 Mtr Running | 2022-23 | Sports & Yoga | 18 |
|-------|----------------------|---------|---------------|-----|
| 67. | 200 Mtr Runn0ng | 2022-33 | Sports& Yoga | 19 |
| 68. | 400 Mtr. Running | 2022-23 | Sports & Yoga | 18 |
| 69. | 800 Mtr Running | 2022-33 | Sports& Yoga | 15 |
| 70. | 1500 Mtr Running | 2022-23 | Sports & Yoga | 15 |
| 71. | 5000 Mtr. Running | 2022-33 | Sports& Yoga | 16 |
| 72. | Shot-Put Throw | 2022-23 | Sports & Yoga | -30 |
| 73. | Javelin Throw | 2022-33 | Sports& Yoga | 18 |
| 74. | Discuss throw | 2022-23 | Sports & Yoga | 18 |
| 75. | Long Jump | 2022-33 | Sports& Yoga | 16 |
| 76. | Chess | 2022-23 | Sports & Yoga | 23 |
| 77. | Corram Single | 2022-33 | Sports& Yoga | 29 |
| 78. | Carom Doubles | 2022-23 | Sports & Yoga | 20 |
| 79. | Table Tennis Single | 2022-23 | Sports& Yoga | 23 |
| 80. | Table Tennis Doubles | 2022-33 | Sports & Yoga | 10 |
| 81. | Foot Ball | 2022-23 | Sports& Yoga | 90 |
| 82. | Volley Ball | 2022-33 | Sports & Yoga | 60 |
| 83. | Wrestling | 2022-23 | Sports& Yoga | 01 |
| 84. | Best Physic | 2022-23 | Sports & Yoga | 01 |
| 85. | Athletic | 2022-23 | Sports& Yoga | 08 |
| 86. | Kabadi | 2022-23 | Sports & Yoga | 12 |
| 87. | КНО-КНО | 2022-23 | Sports& Yoga | 12 |
| 88. | Yoga | 2022-23 | Sports & Yoga | 8 |
| 89. (| Youth Festival | 2022-23 | Sports& Yoga | _10 |

Dr.S.N.Topannavar
IQAC Coordinator
IQAC Coordinator
Hirasugar Institute of Technology
Nidasoshi-591236



Dr.S.C.Kamate
Principal
PRINCIPAL
Hirasugar Institute of Technology
Nidasoshi-591 236

00000 100000 100000

SJPN Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC
Academics
Student Centric
Methods
Technical
Seminars

List of Technical Seminars presented by the students during last 5 years

Institute is permanently affiliated to the Visvesvaraya Technological University, Belgaum. In view of NEP-2020 based revised curriculum of the affiliated university, the institute has facilitated to organize technical seminars of the students in the departments as per the university guidelines. The students' team members individually select the seminar topic in relevant and emerging under the guidance of the faculty members. Each student has prepared a report and power point presentation as per the departmental policy and guide suggestions. Each student has presented the information related to the selected topic before the internal evaluation committee. The presentations of the students are evaluated through proper rubrics. By this activity student will learn report writing and presentation skills on emerging/relevant areas. The following are the list of technical seminar topics on which students have presented their report before the evaluation committee.

| S.N. | Seminar Title/Topic | Academic Year | Dept. |
|------|--|------------------|-------|
| 1. | Laser Ignition for Internal Combustion Engine | 2018-19 | ME |
| 2. | Reverse Engineering | 2018-19 | ME |
| 3. | Digital Twin Spark Plug ignition Engine | 2018-19 | ME |
| 4. | Waste Heat Recovery from Industrial Baking Ovens | 2018-19 | ME |
| 5. | Fuel Cell | 2018-19 | ME |
| 6. | Cryogenic Grinding | 2018-19 | ME |
| 7. | Tweel Airless Tyre Technology | 2018-19 | ME |
| 8. | Under water Communication Technology | 2018-19 | ME |
| 9. | Thermo-Mechanical Heat Pipe | 2018-19 | ME |
| 10. | Eye ball Sensor Based Wheel Chair | 2018-19 | ME |
| 11. | Sugarcane Harvesting | 2018-19 | ME |
| 12. | Electricity from Waste Water | 2018-19 | ME |
| 13. | Robotic Surgery | 2018-19 | ME |
| 14. | Desalination of Sea/ Hard Water in Portable Water | 2018-19 | ME |
| 15. | Sensotronic Braking System | 2018-19 | ME |
| 16. | Air Bag Gear Bike | 2018-19 | ME |
| 17. | Artificial Heart | 2018-19 | ME |
| 18. | Foldable Helmet | 2018-19 | ME |
| 19. | Leaf Motion Design in Mechanical Field | 2018-19 | ME |
| 20. | Design of Low Cost Roofing Tiles Using Agriculture Waste | 2018-19 | ME |
| 21. | Camless Engine | 2018-19 | ME |
| 22. | 3D Printing | 2018-19 | ME |
| 23. | Graphine | 2018-19 | ME |
| 24. | Waste Plastic Into Fuel | 2018-19 | ME |
| 25. | Cryogenics | 2018-19 | ME |
| 26. | Modern Electrical Cars of Tesla Modern Company | 2018-19 | ME |
| 27. | Low Cost Roofing Tiles Using Agricultural Waste | 2018-19 | ME |
| 28. | Microcontroller Based Drip Irrigation System | 2018-19 | ME |
| 29. | Rail Gun | 2018-19 | ME |
| 30. | Carbon Ceramic Braker | 2018-19 | ME |

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India.

Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Technical
Seminars

IQAC

| 31. | Lean Manufacturing | 2018-19 | ME |
|-----|---|---------|-----|
| 32. | Magnetic Refrigeration | 2018-19 | ME |
| 33. | Under Water Welding | 2018-19 | ME |
| 34. | Oil Shale | 2018-19 | ME |
| 35. | Cryocar Runs with water and Salt | 2018-19 | ME |
| 36. | Magneto Rheological Fluid | 2018-19 | ME |
| 37. | Fiber Composite Strengthening of Thin Walled Steel Vehicle | 2018-19 | ME |
| | Crush Tubes for Frontal Collision Energy Absorption | 2010-19 | ME |
| 38. | Paper Battery | 2018-19 | ME |
| 39. | Floating Windmill | 2018-19 | ME |
| 40. | Carbon Credit | 2018-19 | ME |
| 41. | Cruise Missile Technology | 2018-19 | ME |
| 42. | Scramjet Engine | 2018-19 | ME |
| 43. | Metal Forming: Super Plastic Forming | 2018-19 | ME |
| 44. | Piezoelectric Model | 2018-19 | ME |
| 45. | Pulse Detonation Engine | 2018-19 | ME |
| 46. | CO2 Capturing and Storage | 2018-19 | ME |
| 47. | Laser Shot Processing | 2018-19 | ME |
| 48. | Haptic Technology | 2018-19 | ME |
| 49. | Kinetic Energy Recovery System | 2018-19 | ME |
| 50. | Solar Collector | 2018-19 | ME |
| 51. | Maglev Train | 2018-19 | ME |
| 52. | Hyperloop High Speed Transportation | 2018-19 | ME |
| 53. | Technological Advancement in Process/ Product Industry | 2018-19 | ME |
| | form Plastic Waste | 2016-19 | MIE |
| 54. | Plasma Assisted Milling | 2018-19 | ME |
| 55. | Composite Material for Innovations Wind Turbine Blade | 2018-19 | ME |
| 56. | Bio Diesel | 2018-19 | ME |
| 57. | Hemi Engine | 2018-19 | ME |
| 58. | Mechanical Energy Storage System | 2018-19 | ME |
| 59. | Bladeless Wind Turbine | 2018-19 | ME |
| 60. | Stealth Technology | 2018-19 | ME |
| 61. | Automated Highway System | 2018-19 | ME |
| 62. | Solar Road Ways | 2018-19 | ME |
| 63. | Six Stroke Engine | 2018-19 | ME |
| 64. | Vacuum Braker | 2018-19 | ME |
| 65. | Under Water Robots | 2018-19 | ME |
| 66. | Plastic Welding | 2018-19 | ME |
| 67. | Methanol Fuel For IC Engines | 2018-19 | ME |
| 68. | Compressed Air car | 2018-19 | ME |
| 69. | Friction Stir Welding | 2018-19 | ME |
| 70. | Space X (Reusable Satellite Launcher) | 2018-19 | ME |
| 71. | Pollution less Engine | 2018-19 | ME |
| 72. | Feasibility Study on Power Generation Using Treated Waste Water | 2018-19 | ME |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric

Methods

Technical

Seminars

| 73. | Hyperloop Technology | 2018-19 | ME |
|------|--|---------|----|
| 74. | Self Inflating Tyre | 2018-19 | ME |
| 75. | Electric Diwheel With Active Resistance Damping | 2010 10 | ME |
| | (WDWARD) Cycle | 2018-19 | ME |
| 76. | Phase Change Material for Cooling of PV Cell | 2018-19 | ME |
| 77. | Night Vision Technology in Automobile | 2018-19 | ME |
| 78. | Four Wheel Steering Control | 2018-19 | ME |
| 79. | Biofuel & Food Security | 2018-19 | ME |
| 80. | Mobile Duct Cleaner | 2018-19 | ME |
| 81. | Zero Energy Homes | 2018-19 | ME |
| 82. | Hydraulic Hybrid Vehicle | 2018-19 | ME |
| 83. | Cruise Control System | 2018-19 | ME |
| 84. | Aerospace Trends and New Technology Development | 2018-19 | ME |
| 85. | Additive Manufacturing | 2018-19 | ME |
| 86. | Wobble Turbine (Vortex Bladeless Turbine) | 2018-19 | ME |
| 87. | Borewell Baby Rescue by Using Robot Mechanism | 2018-19 | ME |
| 88. | MPFI System | 2018-19 | ME |
| 89. | Automatic Solar Panels | 2018-19 | ME |
| 90. | Coordinate Measuring Machine | 2018-19 | ME |
| 91. | Heat Transfer Enhancement by Nanofluids | 2018-19 | ME |
| 92. | Solid Waste management | 2018-19 | ME |
| 93. | Active Suspension System | 2018-19 | ME |
| 94. | ABS System Fox Bike | 2018-19 | ME |
| 95. | Future Flying Cars | 2018-19 | ME |
| 96. | Agriculture Drone | 2018-19 | ME |
| 97. | Maggenn Air Rotor System | 2018-19 | ME |
| 98. | Space Robotics | 2018-19 | ME |
| 99. | Super Cavitation | 2018-19 | ME |
| 100. | Drones & UAVs for Military Applications | 2018-19 | ME |
| 101. | Utilization of Waste Heat Recovery | 2018-19 | ME |
| 102. | Aqua silencer | 2018-19 | ME |
| 103. | MEMS Technology | 2018-19 | ME |
| 104. | Railway Sludge Management | 2018-19 | ME |
| 105. | Micro Turbine | 2018-19 | ME |
| 106. | 4D printing | 2018-19 | ME |
| 107. | Powder Metallurgy | 2018-19 | ME |
| 108. | Hybrid Chassis | 2018-19 | ME |
| 109. | Biometric Car Access | 2018-19 | ME |
| 110. | Artificial Intelligence | 2018-19 | ME |
| 111. | Hyperloop | 2019-20 | ME |
| 112. | Industry 4.0 | 2019-20 | ME |
| 113. | The role of mechanical engineers in Agricultural sectors | 2019-20 | ME |
| 114. | Magnetic repulsion piston engine | 2019-20 | ME |
| 115. | Hydrographic Water Transfer Printing Technology | 2019-20 | ME |
| 116. | Smart Farming (IOT in Agriculture) | 2019-20 | ME |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Methods Technical Seminars

IQAC

Academics

Student Centric

| 117. | Celluveyor | 2019-20 | ME |
|------|--|---------|----|
| 118. | Recent Trends in Solar Energy | 2019-20 | ME |
| 119. | Speech Recognizing Robotic Arm For Writing Process | 2019-20 | ME |
| 120. | Total Productive Maintenance | 2019-20 | ME |
| 121. | Electricity Generating Shock Absorber | 2019-20 | ME |
| 122. | Air Bags in Automobiles | 2019-20 | ME |
| 123. | An automated fruit harvesting robot by using deep learning | 2019-20 | ME |
| 124. | Nuclear fusion -The way to new energy | 2019-20 | ME |
| 125. | Under water wireless communication technology | 2019-20 | ME |
| 126. | Cloud based smart dustbin system for metro station | 2019-20 | ME |
| 127. | Cryogenic Grinding | 2019-20 | ME |
| 128. | Carbon Nanotubes | 2019-20 | ME |
| 129. | Piezoelectric Energy Generation | 2019-20 | ME |
| 130. | Air suspension System | 2019-20 | ME |
| 131. | Hydrogen Generation and Storage | 2019-20 | ME |
| 132. | Tethered Undersea Kite system | 2019-20 | ME |
| 133. | Jet Engines | 2019-20 | ME |
| 134. | Generation of Electricity from Waste Heat | 2019-20 | ME |
| 135. | Aqua Silencer | 2019-20 | ME |
| 136. | Automobile Safety system | 2019-20 | ME |
| 137. | Antiterroy robotic vehicle for land mine detector | 2019-20 | ME |
| 138. | Solar Power Satellite | 2019-20 | ME |
| 139. | Nuclear Battery | 2019-20 | ME |
| 140. | Ultrasonic Motor | 2019-20 | ME |
| 141. | Magnetic Refrigeration | 2019-20 | ME |
| 142. | Space Robotics | 2019-20 | ME |
| 143. | Shape memory alloy | 2019-20 | ME |
| 144. | DTSi Technology | 2019-20 | ME |
| 145. | Paper Battery | 2019-20 | ME |
| 146. | Synthetic polymer | 2019-20 | ME |
| 147. | Common Rail Direct Injection System | 2019-20 | ME |
| 148. | Bioinspired materials using Ultrasonic freeze casting | 2019-20 | ME |
| 149. | Solar Cooker | 2019-20 | ME |
| 150. | Stratified Charge Engine | 2019-20 | ME |
| 151. | Infrared Thermography | 2019-20 | ME |
| 152. | Solar Window | 2019-20 | ME |
| 153. | Smart Materials | 2019-20 | ME |
| 154. | Dual Axis Solar Tracker | 2019-20 | ME |
| 155. | Independent Wheel vehicle suspension | 2019-20 | ME |
| 156. | Scramjet engine | 2019-20 | ME |
| 157. | Micromachining | 2019-20 | ME |
| 158. | Self inflating tyres | 2019-20 | ME |
| 159. | Pulse detonation engine | 2019-20 | ME |
| 160. | HEMI Engine | 2019-20 | ME |
| 161. | Designing human centered automotive automation system | 2019-20 | ME |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Student Centric Methods Technical Seminars

IQAC

Academics

| 162. Tech vs. Corona 2019-20 ME 163. Towed Array Sonar 2019-20 ME 164. Regenerative braking system 2019-20 ME 165. Air Bearing 2019-20 ME 165. Air Bearing 2019-20 ME 166. Swarn Robotics 2019-20 ME 167. Nano fluids Thermal applications 2019-20 ME 168. Cryocars 2019-20 ME 169. Nano robots in Human body 2019-20 ME 170. Floating wind mills 2019-20 ME 171. Scuderi split cycle engine 2019-20 ME 172. Fuel Energizer 2019-20 ME 173. Space exploration Technologies Corporation(SpaceX) 2019-20 ME 173. Space exploration Technologies Corporation(SpaceX) 2019-20 ME 174. Steath Technology 2019-20 ME 175. Printed organic solar cell 2019-20 ME 176. Multi port fluel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. Wló super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy 2019-20 ME 189. Sope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 1919. 3D Printing 2019-20 ME 1919 | | | | |
|--|------|---------------------------------------|---------|-------|
| 164. Regenerative braking system | 162. | Tech vs Corona | 2019-20 | ME |
| 164. Regenerative braking system | 163. | Towed Array Sonar | 2019-20 | ME |
| 165. Air Bearing | 164. | Regenerative braking system | 2019-20 | ME |
| 166. Swarn Robotics 2019-20 ME 167. Nano fluids Thermal applications 2019-20 ME 168. Cryocars 2019-20 ME 169. Nano robots in Human body 2019-20 ME 170. Floating wind mills 2019-20 ME 170. Floating wind mills 2019-20 ME 171. Scuderi split cycle engine 2019-20 ME 172. Fuel Energizer 2019-20 ME 173. Space exploration Technologies Corporation(SpaceX) 2019-20 ME 174. Stealth Technology 2019-20 ME 175. Printed organic solar cell 2019-20 ME 176. Multi port fuel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. Microcontroller drip system 2019-20 ME 199. Cengines 2019-20 ME 199. Cengines 2019-20 ME 199. Cengines 2019-20 ME 199. Cengines 2019-20 ME 199. Cengines | 165. | | 2019-20 | ME |
| 167. Nano fluids Thermal applications 2019-20 ME 168. Cryocars 2019-20 ME 169. Nano robots in Human body 2019-20 ME 170. Floating wind mills 2019-20 ME 171. Scuderi split cycle engine 2019-20 ME 172. Fuel Energizer 2019-20 ME 173. Space exploration Technologies Corporation(SpaceX) 2019-20 ME 174. Stealth Technology 2019-20 ME 175. Printed organic solar cell 2019-20 ME 176. Multi port fuel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. Nox reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. Radar System 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. Creams 2019-20 ME 199. Sixth Sense Technology 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 2019-20 ME 2020. Under water welding 2019-20 ME 2021. Under water welding 2019-20 ME 2022. Under welding 2019-20 ME 203. Electric vehicle 2019-20 ME 203. Electric vehicle 2019-20 ME 203. Electric vehicle 2019-20 ME 203. Ele | | Č | + | |
| 168. Cryocars 2019-20 ME 169. Nano robots in Human body 2019-20 ME 170. Floating wind mills 2019-20 ME 171. Scuderi split cycle engine 2019-20 ME 172. Fuel Energizer 2019-20 ME 173. Space exploration Technologies Corporation(SpaceX) 2019-20 ME 174. Stealth Technology 2019-20 ME 175. Printed organic solar cell 2019-20 ME 175. Printed organic solar cell 2019-20 ME 176. Multi port fuel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. Microcontroller drip system 2019-20 ME 199. Cengines 2019- | - | | | |
| 169. Nano robots in Human body 2019-20 ME 170. Floating wind mills 2019-20 ME 171. Scuderi split cycle engine 2019-20 ME 172. Fuel Energizer 2019-20 ME 173. Space exploration Technologies Corporation(SpaceX) 2019-20 ME 174. Stealth Technology 2019-20 ME 175. Printed organic solar cell 2019-20 ME 176. Multi port fuel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Telak turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. Mon Pneumatic tyre 2019-20 ME 199. Sixth Sense Technology 2019-20 ME 2019-20 ME 190. Sixth Sense Technology 2019-20 ME 2019 | | ** | | |
| 170. Floating wind mills 2019-20 ME 171. Scuderi split cycle engine 2019-20 ME 172. Fuel Energizer 2019-20 ME 173. Space exploration Technologies Corporation(SpaceX) 2019-20 ME 174. Stealth Technology 2019-20 ME 175. Printed organic solar cell 2019-20 ME 176. Multi port fuel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques | | | | |
| 171. Scuderi split cycle engine 2019-20 ME 172. Fuel Energizer 2019-20 ME 173. Space exploration Technologies Corporation(SpaceX) 2019-20 ME 174. Stealth Technology 2019-20 ME 175. Printed organic solar cell 2019-20 ME 176. Multi port fuel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Flo | | | | |
| 172. Fuel Energizer 2019-20 ME 173. Space exploration Technologies Corporation(SpaceX) 2019-20 ME 174. Stealth Technology 2019-20 ME 175. Printed organic solar cell 2019-20 ME 176. Multi port fuel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. VI6 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence o | | | | |
| 173. Space exploration Technologies Corporation(SpaceX) 2019-20 ME 174. Stealth Technology 2019-20 ME 175. Printed organic solar cell 2019-20 ME 176. Multi port fuel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME | | 1 0 | | |
| 174. Stealth Technology 2019-20 ME 175. Printed organic solar cell 2019-20 ME 176. Multi port fuel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME | | | | |
| 175. Printed organic solar cell 2019-20 ME 176. Multi port fuel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME | | | | |
| 176. Multi port fuel injection system 2019-20 ME 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME | | | | |
| 177. Wave Power 2019-20 ME 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME | | | | |
| 178. Robotic Surgery 2019-20 ME 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME | | i i | | |
| 179. Haptic Technology 2019-20 ME 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME | | | | |
| 180. Under Water Soldering 2019-20 ME 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME | | | | |
| 181. Ceramic Disc Brakes 2019-20 ME 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME | | | 1 | |
| 182. W16 super engine 2019-20 ME 183. A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication 2019-20 ME 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME | | | | |
| 183.A Forward collision warning system using driving intention recognition of the front vehicle and V2V communication2019-20ME184.Osmotic power generation2019-20ME185.Poka yoke techniques to prevent error2019-20ME186.Floating wind mill2019-20ME187.Influence of kenaf on mechanical properties of glass epoxy composites2019-20ME188.NOx reduction in IC engines2019-20ME189.Scope of Non Conventional Plant In India2019-20ME190.Friction Stir Welding For Aluminum2019-20ME191.3D Printing.2019-20ME192.Radar System2019-20ME193.laser ignition2019-20ME194.Hydraulic suspension system2019-20ME195.Tesla turbine2019-20ME196.Anti lock braking system2019-20ME197.Non Pneumatic tyre2019-20ME198.microcontroller drip system2019-20ME199.IC engines2019-20ME200.Sixth Sense Technology2019-20ME201.Smokeless chhula2019-20ME203.Electric vehicle2019-20ME | | | | |
| recognition of the front vehicle and V2V communication 184. Osmotic power generation 185. Poka yoke techniques to prevent error 186. Floating wind mill 187. Influence of kenaf on mechanical properties of glass epoxy composites 188. NOx reduction in IC engines 189. Scope of Non Conventional Plant In India 190. Friction Stir Welding For Aluminum 191. 3D Printing. 192. Radar System 193. laser ignition 194. Hydraulic suspension system 195. Tesla turbine 196. Anti lock braking system 197. Non Pneumatic tyre 198. microcontroller drip system 2019-20 ME | | | 2019-20 | ME |
| 184. Osmotic power generation 2019-20 ME 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | 183. | | 2019-20 | ME |
| 185. Poka yoke techniques to prevent error 2019-20 ME 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 | 104 | | 2010.20 |) (T) |
| 186. Floating wind mill 2019-20 ME 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | | | |
| 187. Influence of kenaf on mechanical properties of glass epoxy composites 2019-20 ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME </td <td></td> <td></td> <td></td> <td></td> | | | | |
| composites ME 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2 | | | 2019-20 | ME |
| 188. NOx reduction in IC engines 2019-20 ME 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | 187. | | 2019-20 | ME |
| 189. Scope of Non Conventional Plant In India 2019-20 ME 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | 188. | <u> </u> | 2019-20 | ME |
| 190. Friction Stir Welding For Aluminum 2019-20 ME 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | | | |
| 191. 3D Printing. 2019-20 ME 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | | + | |
| 192. Radar System 2019-20 ME 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | <u> </u> | | |
| 193. laser ignition 2019-20 ME 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | - | | | |
| 194. Hydraulic suspension system 2019-20 ME 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | · · · · · · · · · · · · · · · · · · · | | |
| 195. Tesla turbine 2019-20 ME 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | | | |
| 196. Anti lock braking system 2019-20 ME 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | | | |
| 197. Non Pneumatic tyre 2019-20 ME 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | | + | |
| 198. microcontroller drip system 2019-20 ME 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | | | |
| 199. IC engines 2019-20 ME 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | · · · · · · · · · · · · · · · · · · · | | |
| 200. Sixth Sense Technology 2019-20 ME 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | 1 1 | | |
| 201. Smokeless chhula 2019-20 ME 202. Under water welding 2019-20 ME 203. Electric vehicle 2019-20 ME | | | | |
| 202.Under water welding2019-20ME203.Electric vehicle2019-20ME | | | | |
| 203. Electric vehicle 2019-20 ME | | | 1 | |
| | | e e e e e e e e e e e e e e e e e e e | | |
| | 204. | Night vision for automobiles | 2019-20 | ME |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Technical
Seminars

IQAC

| 205. | Google driverless car | 2019-20 | ME |
|----------------------|--|--------------------|----------|
| 206. | Precision agriculture | 2019-20 | ME |
| 207. | Catalytic converter | 2019-20 | ME |
| 208. | Recent development of solar energy in India | 2019-20 | ME |
| 209. | Hyper loop transportation system | 2019-20 | ME |
| 210. | Underwater Welding | 2019-20 | ME |
| 211. | Automatic pneumatic bumper and breaking system | 2019-20 | ME |
| 212. | Conversion of Plastic Waste to Liquid | 2019-20 | ME |
| 213. | Microwave Hybrid Iron cast Joining | 2019-20 | ME |
| 214. | Intelligent cooling system | 2019-20 | ME |
| 215. | Micromachining | 2019-20 | ME |
| 216. | Smart materials | 2019-20 | ME |
| 217. | The application of nanotechnology in mechanical engineering | 2019-20 | ME |
| 218. | Micro controller based on drip irrigation system | 2019-20 | ME |
| 219. | Microscopy (Optical and Electron Microscopy) | 2019-20 | ME |
| 220. | Incineration of solid waste management | 2019-20 | ME |
| 221. | Bioplastic | 2019-20 | ME |
| 222. | Solar Tracking | 2019-20 | ME |
| 223. | Solar Collectors | 2019-20 | ME |
| 224. | Bladeless Turbine | 2019-20 | ME |
| 225. | Active Magnetic Bearings | 2019-20 | ME |
| 226. | Ceramic Disc Brakes | 2019-20 | ME |
| 227. | Heat Transfer Through Nano Fluids | 2019-20 | ME |
| 228. | Application of Additive Manufacturing Technology In | | |
| 220. | Medical Science | 2019-20 | ME |
| 229. | Hydro Loop Technology | 2019-20 | ME |
| 230. | BS 6 | 2019-20 | ME |
| 231. | Open bionics | 2019-20 | ME |
| 232. | Zero energy building | 2019-20 | ME |
| 233. | Vehicle emission and their effect on natural environment | 2019-20 | ME |
| 234. | Air pollution and its control measures | 2019-20 | ME |
| 235. | Research of the external aerodynamics of the vehicle model | 2019-20 | ME |
| 236. | Fabrication of compressed air | 2019-20 | ME |
| 237. | Micro turbine Generator Systems | 2020-21 | ME |
| 238. | Modern Solar Collectors | 2020-21 | ME |
| 239. | Military Radar system | 2020-21 | ME |
| 240. | Electric vehicles Technology and its future | 2020-21 | ME |
| 241. | Solid Waste Management | 2020-21 | ME |
| | Safety Features in car | 2020-21 | ME |
| 242. | | | |
| 242. | · · | 2020-21 | ME |
| | Unmanned Aerial vehicles for agricultural application Ultrasonic motor | 2020-21 2020-21 | ME ME |
| 243. | Unmanned Aerial vehicles for agricultural application Ultrasonic motor | | |
| 243. 244. | Unmanned Aerial vehicles for agricultural application Ultrasonic motor Methanol as a marine fuel | 2020-21 | ME |
| 243. 244. 245. | Unmanned Aerial vehicles for agricultural application Ultrasonic motor | 2020-21 2020-21 | ME ME |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Academics
Student Centric
Methods
Technical
Seminars

IQAC

| 249. | Camless Engine | 2020-21 | ME |
|------|--|---------|----|
| 250. | Non-pneumatic tyre (Airless tyre) | 2020-21 | ME |
| 251. | Solar Sail | 2020-21 | ME |
| 252. | Paper Battery | 2020-21 | ME |
| 253. | Supercavitation | 2020-21 | ME |
| 254. | Mechanical energy storage | 2020-21 | ME |
| 255. | Automation In Agriculture(Agricultural Drone) | 2020-21 | ME |
| 256. | Disease detection using bio robotics | 2020-21 | ME |
| 257. | Printed Organic Solar Cell | 2020-21 | ME |
| 258. | Electric paddy cutting machine | 2020-21 | ME |
| 259. | Plastic Welding | 2020-21 | ME |
| 260. | Vacuum Breaking System | 2020-21 | ME |
| 261. | Fuel Energizer | 2020-21 | ME |
| 262. | Underwater Welding | 2020-21 | ME |
| 263. | Non-pneumatic tyre (Airless tyre) | 2020-21 | ME |
| 264. | Google driverless car | 2020-21 | ME |
| 265. | Six Stroke Engine | 2020-21 | ME |
| 266. | Ultrasonic motor | 2020-21 | ME |
| 267. | Vehicle control with regenerative braking | 2020-21 | ME |
| 268. | Biometrics | 2020-21 | ME |
| 269. | Osmotic power generation | 2020-21 | ME |
| 270. | "Embedded System in Automobiles" | 2020-21 | ME |
| 271. | Geothermal Energy | 2020-21 | ME |
| 272. | Coconut skin peeling machine | 2020-21 | ME |
| 273. | Under water Wind Mill | 2020-21 | ME |
| 274. | Biomechatronic Hand | 2020-21 | ME |
| 275. | Floating solar plant | 2020-21 | ME |
| 276. | Cruise missile technology | 2020-21 | ME |
| 277. | Gujarat Hybrid Renewable Energy Park | 2020-21 | ME |
| 278. | Extraction of Bio-diesel from waste cooking oil | 2020-21 | ME |
| 279. | Solar Refrigeration | 2020-21 | ME |
| 280. | Light weight material-carbon fiber | 2020-21 | ME |
| 281. | Autonomous Cars | 2020-21 | ME |
| 282. | Micromachining | 2020-21 | ME |
| 283. | Application of CIM in food industry. | 2020-21 | ME |
| 284. | Submerged Floating Tunnel | 2020-21 | ME |
| 285. | Green Supply Chain Management | 2020-21 | ME |
| 286. | crumple zone | 2020-21 | ME |
| 287. | Nan Robotics | 2020-21 | ME |
| 288. | Artificial Intelligence in Mechanical Engineering | 2020-21 | ME |
| 289. | Intelligent speed adaptation and accident avoidance system | 2020-21 | ME |
| 290. | Space Robotics | 2020-21 | ME |
| 291. | Cryogenics and its Space Applications | 2020-21 | ME |
| 292. | Automated irrigation system | 2020-21 | ME |
| 293. | Continuous Variable Transmission | 2020-21 | ME |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Student Centric Methods Technical Seminars

IQAC

Academics

| 294. | Google Driverless Car | 2020-21 | ME |
|------|---|---------|----|
| 295. | Nuclear Battery | 2020-21 | ME |
| 296. | AI Based Humanoid Robots | 2020-21 | ME |
| 297. | Extraction of Bio-diesel from waste cooking oil | 2020-21 | ME |
| 298. | SIMPUTER | 2020-21 | ME |
| 299. | Non-Pneumatic Tyres | 2021-22 | ME |
| 300. | Robotic Surgery | 2021-22 | ME |
| 301. | Autonomous Car | 2021-22 | ME |
| 302. | Solar Still | 2021-22 | ME |
| 303. | Fuels From Plastic Wastes | 2021-22 | ME |
| 304. | Camless Engine | 2021-22 | ME |
| 305. | Plastic Solar Cell Technology | 2021-22 | ME |
| 306. | Application Of Additive Manufacturing In Medical | 2021-22 | ME |
| 307. | Rectification Of Difficulties In Electrical Vehicles | 2021-22 | ME |
| 308. | Advance Iot In Ai | 2021-22 | ME |
| 309. | Auto Pilot Mode Technology In Vehicles | 2021-22 | ME |
| 310. | Automatic Car Parking System Using Arduino | 2021-22 | ME |
| 311. | Maglev Train | 2021-22 | ME |
| 312. | Explosive Welding | 2021-22 | ME |
| 313. | Sensotronic Break Control System | 2021-22 | ME |
| 314. | Six Stroke Engine | 2021-22 | ME |
| 315. | Magnetic Nano Composites | 2021-22 | ME |
| 316. | Underwater Welding | 2021-22 | ME |
| 317. | Micro Machining | 2021-22 | ME |
| 318. | Fuel Cell Power Plant | 2021-22 | ME |
| 319. | Deep Learning | 2021-22 | ME |
| 320. | Automatic Transmission System | 2021-22 | ME |
| 321. | Advance Battery And Fuel Cell Development In Electric Vehicle | 2021-22 | ME |
| 322. | Valvetronic Engine Technology | 2021-22 | ME |
| 323. | Laser Weeding System | 2021-22 | ME |
| 324. | Recent Developments In Biofuel | 2021-22 | ME |
| 325. | Solid Waste Management | 2021-22 | ME |
| 326. | Wireless Power Transmission | 2021-22 | ME |
| 327. | Metaverse | 2021-22 | ME |
| 328. | Starlink Project | 2021-22 | ME |
| 329. | Ocean Thermal Energy Conversion | 2021-22 | ME |
| 330. | Biomimetic Robots | 2021-22 | ME |
| 331. | Hyperloop Technology | 2021-22 | ME |
| 332. | Orbital Welding | 2021-22 | ME |
| 333. | Advanced Rapid Prototyping And 3d Printing | 2021-22 | ME |
| 334. | Night Vision Technology In Automobile | 2021-22 | ME |
| 335. | Embedded System In Automobile | 2021-22 | ME |
| 336. | Advanced Hybrid Electrical Vehicles | 2021-22 | ME |
| 337. | Smart Home Technology | 2021-22 | ME |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Technical
Seminars

IQAC

| 338. | Hydroelectric Power Plant | 2021-22 | ME |
|------|---|---------|----|
| 339. | James Webb Space Telescope | 2021-22 | ME |
| 340. | Stir Friction Welding | 2021-22 | ME |
| 341. | Development Of An Advanced Solar Tracking Energy | 2021 22 | ME |
| | System | 2021-22 | ME |
| 342. | High Speed Machining | 2021-22 | ME |
| 343. | Electricity Generating Shock Absorber | 2021-22 | ME |
| 344. | Micro Electromechanical System | 2021-22 | ME |
| 345. | Autonomous Underwater Vehicle | 2021-22 | ME |
| 346. | Ocean Electricity | 2021-22 | ME |
| 347. | Stealth Technology | 2021-22 | ME |
| 348. | Under Water Windmill | 2021-22 | ME |
| 349. | Hybrid Electric Vehicles | 2021-22 | ME |
| 350. | Laser Cutting System | 2021-22 | ME |
| 351. | Sensors Technologies For Intelligent Transportation Systems | 2021-22 | ME |
| 352. | Bioreactor | 2021-22 | ME |
| 353. | Welding Robots | 2021-22 | ME |
| 354. | Night Vision Technology | 2021-22 | ME |
| 355. | Direct Rapid Tooling For Polymer Processing Using Sheet | 2021 22 | ME |
| | Metal Tools | 2021-22 | ME |
| 356. | Fire Fighting Robot | 2021-22 | ME |
| 357. | Water Jet Cutting | 2021-22 | ME |
| 358. | Bio Battery Technology | 2022-23 | ME |
| 359. | Electronic Skin | 2022-23 | ME |
| 360. | Automated Guided Vehicle System | 2022-23 | ME |
| 361. | Electrical Vehicle | 2022-23 | ME |
| 362. | Sensotronic Braking System | 2022-23 | ME |
| 363. | Osmotic Power Generation | 2022-23 | ME |
| 364. | Biomimetic Robots | 2022-23 | ME |
| 365. | AI/ML and RPA Technology | 2022-23 | ME |
| 366. | Hyperloop Transportation System | 2022-23 | ME |
| 367. | AIML In Automobile Industry | 2022-23 | ME |
| 368. | Six Stroke Engine | 2022-23 | ME |
| 369. | Wireless charging of EV | 2022-23 | ME |
| 370. | Internet of Things | 2022-23 | ME |
| 371. | Under Water Wind Mill | 2022-23 | ME |
| 372. | Floating Solar Pv Plants | 2022-23 | ME |
| 373. | Intelligent Car Parking System | 2022-23 | ME |
| 374. | F1 Track Design & Safety | 2022-23 | ME |
| 375. | Recent Developments In Micro Plasma Arc Welding | 2022-23 | ME |
| 376. | Composite Materials For Aerospace Applications | 2022-23 | ME |
| 377. | Adaptive Cruise Control | 2022-23 | ME |
| 378. | Car Speed Control Using Bluetooth | 2022-23 | ME |
| 379. | Inertial Control Unit for Electric Vehicles to Boost Battery Backup | 2022-23 | ME |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric

Methods

Technical

Seminars

| 290 | Anti Callisian Tusin Creatern | 2022.22 | ME |
|------|--|---------|-----|
| 380. | Anti Collision Train System | 2022-23 | ME |
| 381. | Airless Tires | 2022-23 | ME |
| 382. | Vacuum Braking System | 2022-23 | ME |
| 383. | Automobile Safety System | 2022-23 | ME |
| 384. | Biomechatronic Hand | 2022-23 | ME |
| 385. | Real-Time Detection of Apple Leaf Diseases using convolution Neural Network. | 2022-23 | CSE |
| 386. | Touch Sensing for a Projected Screen Using Slope Disparity Gating | 2022-23 | CSE |
| 387. | Designing Hand Pose Aware Virtual Keyboard With Hand Drift Tolerance | 2022-23 | CSE |
| 388. | Making of Night Vision: Object Detection Under Low- Illumination | 2022-23 | CSE |
| 389. | 5 Pen PC Technology | 2022-23 | CSE |
| 390. | Application of AIML for Accurate Detection of Code Plagiarism | 2022-23 | CSE |
| 391. | Guided Image Deblurring by Deep Multi-Modal Image Fusion | 2022-23 | CSE |
| 392. | Three-Dimensional Password for More Secure Authentication | 2022-23 | CSE |
| 393. | Predicting Household Electric Power Consumption Using Multi-step Time Series with Convolutional LSTM | 2022-23 | CSE |
| 394. | Google glass based real-time scene analysis for visual impaired | 2022-23 | CSE |
| 395. | Traffic sign recognation based deep learning | 2022-23 | CSE |
| 396. | IoT for wastewater management | 2022-23 | CSE |
| 397. | Face Recognition Using Convolutional Neural Networks | 2022-23 | CSE |
| 398. | Development of an Automated Multidirectional Pest Sampling Detection System using Motorized Sticky Traps | 2022-23 | CSE |
| 399. | Multi-channel blockchain scheme for internet of vehicles | 2022-23 | CSE |
| 400. | SPYWARE | 2022-23 | CSE |
| 401. | Multifunctional Electronic Skin with a stack of Temperature and Pressure Sensor Arrays. | 2022-23 | CSE |
| 402. | Multilayer Convolution Neural Network for the Classification of Mango Leaves Infected by Anthracnose Disease | 2022-23 | CSE |
| 403. | Visual place recognition From Eye reflection | 2022-23 | CSE |
| 404. | Real Time Chat Bots and Their Application | 2022-23 | CSE |
| 405. | A Framework to make Voting system transparent using Blockchain Technology | 2022-23 | CSE |
| 406. | Accessing Trustworthy AI in times of COVID-19 | 2022-23 | CSE |
| 407. | Credit Card Fraud Detection Using State-of-the-Art Machine Learning and Deep Learning Algorithms | 2022-23 | CSE |
| 408. | Scalable Reliable Multicast Using Multiple Multicast Channels | 2022-23 | CSE |
| | 1 | | |
| 409. | Medical diagnosis using AI algorithms | 2022-23 | CSE |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Technical
Seminars

IQAC

| | Classification | | |
|------|--|---------|-----|
| 411. | Wi-vi technology | 2022-23 | CSE |
| 412. | Webrtc role in real-time communication and conferencing | 2022-23 | CSE |
| 413. | CAPTCHA in security | 2022-23 | CSE |
| 414. | Real Time Android Application for Traffic Density Estimation | 2022-23 | CSE |
| 415. | Framework for implementing air quality monitoring system | 2022-23 | CSE |
| | using LPWA - based IOT technique | | |
| 416. | Biometric Recognition of Infants using Fingerprint, Iris, and | 2022-23 | CSE |
| | Ear Biometrics | | |
| 417. | Google Glass-Based Classroom Feedback System to Improve | 2022-23 | CSE |
| | Students to Teacher Communication | | |
| 418. | Multi-AUV Inspection for Process Monitoring of Underwater | 2022-23 | CSE |
| | Oil Transportation. | | |
| 419. | Federated Deep Learning for Cyber Security in the Internet of | 2022-23 | CSE |
| | Things | | |
| 420. | Chatgpt Technology | 2022-23 | CSE |
| 421. | Lightweight Multilayer Random Forests for Monitoring Driver | 2022-23 | CSE |
| | Emotional Status | | |
| 422. | Tackling imbalanced data in cybersecurity with transfer | 2022-23 | CSE |
| | learning: a case with ROP payload detection | | |
| 423. | Multiclass Prediction Model for Student Grade Prediction | 2022-23 | CSE |
| | Using Machine Learning | | |
| 424. | 3D-Touchless Full-3D Fingerprint Recognition System Based | 2022-23 | CSE |
| | on Laser Sensing | | |
| 425. | Optical Security System | 2022-23 | CSE |
| 426. | Vein Biometric Recognition on a Smartphone | 2022-23 | CSE |
| 427. | Convolution neural network based online teaching method | 2022-23 | CSE |
| | using cloud -edge computing platform | | |
| 428. | Adversary-Aware Multimodal Neural Networks for Cancer | 2022-23 | CSE |
| 100 | Susceptibility Prediction From Multiomics Data | | ~~~ |
| 429. | Visual place recognition from eye reflection | 2022-23 | CSE |
| 430. | Pedestrian Detection | 2022-23 | CSE |
| 431. | Real-time human action recognition using raw depth video- | 2022-23 | CSE |
| 422 | based recurrent neural networks. | 2022 22 | CCE |
| 432. | Supporting Targeted Advertising in Integrated Broadcast- | 2022-23 | CSE |
| | Broadband Systems With Automatic Media Content | | |
| 422 | Preparation | 2022.22 | COL |
| 433. | Edge-Cloud Computing and Artificial Intelligence in Internet | 2022-23 | CSE |
| 121 | of Medical Things. | 2022.22 | CGE |
| 434. | Federated Video Analytics With Edge Computing | 2022-23 | CSE |
| 435. | Improving Security of Web-Based Application Using MoD | 2021-22 | CSE |
| 126 | Security and Revers Proxy in Web Application Firewall | 2021 22 | CCE |
| 436. | DNA computing for RGB image encryption with Genetic | 2021-22 | CSE |
| 127 | Algorithm The role of Let during Covid 10 | 2021 22 | CCE |
| 437. | The role of Iot during Covid-19 Stochastic Novacl Notacoula for Counts over an av Price | 2021-22 | CSE |
| 438. | Stochastic Neural Networks for Cryptocurrency Price | 2021-22 | CSE |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE IQAC

Academics

Student Centric

Methods

Technical

Seminars

| | Prediction | | |
|------|---|---------|-----|
| 439. | Detecting spam email with ML optimized with bio inspired | 2021-22 | CSE |
| | metaheuristic algorithm | | |
| 440. | A method and system for program management of security | 2021-22 | CSE |
| | chip protection | | |
| 441. | Monitoring and controlling industrial parameters- cloud | 2021-22 | CSE |
| | computing | | |
| 442. | Advanced Machine Learning Methods for Brain Compute | 2021-22 | CSE |
| | Interfacing | | |
| 443. | Face recognition using neural networking | 2021-22 | CSE |
| 444. | Metaverse | 2021-22 | CSE |
| 445. | Cloud storage | 2021-22 | CSE |
| 446. | A Combined Object Detection Method with Application to | 2021-22 | CSE |
| | Pedestrian Detection | | |
| 447. | Smart Note Takers | 2021-22 | CSE |
| 448. | IoT Based Smart Shopping Cart Using Radio Frequency | 2021-22 | CSE |
| 449. | An Electronic Voting System using Blockchain and | 2021-22 | CSE |
| | Fingerprint Authentication | | |
| 450. | Text to image | 2021-22 | CSE |
| 451. | EMS: An Energy Management Scheme for Green IoT | 2021-22 | CSE |
| | Environment | | |
| 452. | CAPTCHA AI problem | 2021-22 | CSE |
| 453. | The Practical Effectiveness of Advanced Driver Assistance | 2021-22 | CSE |
| | Systems at Different Roadway Facilities: System Limitation, | | |
| | Adoption, and Using | | |
| 454. | Li-Fi Technology | 2021-22 | CSE |
| 455. | Data Poison Detection Scheme for Distributed Machine | 2021-22 | CSE |
| | Learning | | |
| 456. | Fabric-IOT: A Blockchain-Based Access Control System in | 2021-22 | CSE |
| | IoT | | |
| 457. | Digital transaction | 2021-22 | CSE |
| 458. | Apple Plant Leaf Disease Detection using Deep Learning and | 2021-22 | CSE |
| | Convolutional Neural Network | | |
| 459. | Making of Night Vision: Object Detection Under Low | 2021-22 | CSE |
| | Illumination | | |
| 460. | Breast Cancer classification using Deep Learning | 2021-22 | CSE |
| 461. | Blockchain for COVID-19 Contact Tracing & Vaccine | 2021-22 | CSE |
| | Support | | |
| 462. | Secure CAPTCHAs via Object Segment Collages | 2021-22 | CSE |
| 463. | Automobile Driver Fingerprinting-A New Machine Learning | 2021-22 | CSE |
| | Based Authentication Scheme | 2024 22 | |
| 464. | Development of control System for Fruit Classification Based | 2021-22 | CSE |
| | on Convolution Neural Network | | |
| 465. | Improving the testing efficiency of selenium-based load tests | 2021-22 | CSE |
| 466. | Detecting Spam Email with Machine Learning | 2021-22 | CSE |
| | Optimized with Bio-Inspired | | |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Methods Technical Seminars

IQAC

Academics

Student Centric

| | Metaheuristic Algorithms | | |
|-------|--|---------|-----|
| 467. | Artificial intelligence for enhanced mobility and 5G | 2021-22 | CSE |
| 407. | connectivity in UAV based critical missions | 2021-22 | CSE |
| 468. | , | 2021-22 | CSE |
| | Mind reading computer using machine learning Voice-Activated Smart Home Controller | | |
| 469. | | 2021-22 | CSE |
| 470 | Using Machine Learning. | 2021 22 | COL |
| 470. | RESS-IoT: A Scalable Energy- efficient MAC protocol for | 2021-22 | CSE |
| 471 | Direct- to -Satellite IoT | 2021 22 | CCE |
| 471. | Machine Learning techniques for 5G and Beyond | 2021-22 | CSE |
| 472. | Robust low-cost passive UHF RFID Based Smart Shopping | 2021-22 | CSE |
| | Trolley | | |
| 473. | Automated software testing Tools. | 2021-22 | CSE |
| 474. | Blockchain-based Dashcam Video Management Method. | 2021-22 | CSE |
| 475. | Fluid Temperature Detection Based on its Sound with a Deep | 2021-22 | CSE |
| | Learning Approach | | |
| 476. | Fruit Grading system using machine learning | 2021-22 | CSE |
| 477. | Automated Inspection System in Manufacturing Field | 2021-22 | CSE |
| 478. | Fog computing | 2021-22 | CSE |
| 479. | Cross Border payment with Blockchain | 2021-22 | CSE |
| 480. | Crypto currency | 2021-22 | CSE |
| 481. | Brain computer interface system for epilepsy | 2022-23 | ECE |
| 482. | Estimation of mean arterial pressure from ECG and BP using | 2022 22 | ECE |
| | mathematical model | 2022-23 | |
| 483. | Study of sleep disorder types using ECG and EEG features | 2022-23 | ECE |
| 484. | Automatic Number Plate Recognition | 2022-23 | ECE |
| 485. | E Skin | 2022-23 | ECE |
| 486. | A drone-based sensing system to support satellite image | 2022 22 | ECE |
| | analysis for Rice farm mapping | 2022-23 | |
| 487. | Palm vein recognition through fusion of texture based and | 2022 22 | ECE |
| | CNN based methods | 2022-23 | |
| 488. | Cloud computing: the emerging technology | 2022-23 | ECE |
| 489. | Wireless communication technologies in internet of things | 2022-23 | ECE |
| 490. | Real time embedded system for automobile automation | 2022-23 | ECE |
| 491. | Fuzzy logic based control system | 2022-23 | ECE |
| 492. | Automatic Solar Panel Cleaning System | 2022-23 | ECE |
| 493. | Geriatric Care System Using Electronically Controlled Air | | ECE |
| .,,,, | Jacket | 2022-23 | |
| 494. | 3D holographic projection | 2022-23 | ECE |
| 495. | CHATGPT | 2022-23 | ECE |
| 496. | Indian open source processor | 2022-23 | ECE |
| 497. | SDLC | 2022-23 | ECE |
| 498. | 6G wireless communication networks | 2022-23 | ECE |
| 499. | Ethical hacking | 2022-23 | ECE |
| 500. | Spintronics Technology | 2022-23 | ECE |
| | | | ECE |
| 501. | Salesforce: The Future Of Crm Technology | 2022-23 | ECE |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Student Centric Methods Technical Seminars

IQAC

Academics

| 502. | Advances In Optical Fiber Sensors Based On Mmi | 2022-23 | ECE |
|------|--|---------|-----|
| 503. | Chatbot For E-Commerce | 2022-23 | ECE |
| 504. | Carbon Nano Field Effect Transistor | 2022-23 | ECE |
| 505. | Telemedicine System | 2022-23 | ECE |
| 506. | Wireless Charging of Mobile Phone Using Microwave | 2022-23 | ECE |
| 507. | Extream Ultraviolet Lithography | 2022-23 | ECE |
| 508. | Plastic Electronics | 2022-23 | ECE |
| 509. | High Speed Non-violet optical memory | 2022-23 | ECE |
| 510. | Night Vision Technology | 2021-22 | ECE |
| 511. | An Ad hoc Network for Wireless Technology: DakNet | 2021-22 | ECE |
| 512. | Metaverse - The Extended Reality | 2021-22 | ECE |
| 513. | Wearable Devices for the Detection of COVID-19 | 2021-22 | ECE |
| 514. | Block Chain Technology | 2021-22 | ECE |
| 515. | Blue Eyes Technology | 2021-22 | ECE |
| 516. | IoT based Air Pollution Monitoring System | 2021-22 | ECE |
| 517. | Electronic Bomb | 2021-22 | ECE |
| 518. | Answer Evaluation System Using Language Process Algorithm | 2021-22 | ECE |
| 519. | Human Computer Interface | 2021-22 | ECE |
| 520. | Agricultural Model for Crop Prediction on the Region Belts of India | 2021-22 | ECE |
| 521. | SKL Based Fake Reviews Detection | 2021-22 | ECE |
| 522. | Smart Security Box | 2021-22 | ECE |
| 523. | Skinput Technology | 2021-22 | ECE |
| 524. | Android Based Home Automation System | 2021-22 | ECE |
| 525. | Wireless Charging of Electric Vehicles | 2021-22 | ECE |
| 526. | Airbone Internet | 2021-22 | ECE |
| 527. | Electronic Toll Collection | 2021-22 | ECE |
| 528. | Wireless Patient Health Monitoring System | 2021-22 | ECE |
| 529. | Space Robotics | 2021-22 | ECE |
| 530. | An Efficient Approach of Taking Quick AND Simple Notes in Air through Smart Note Taker | 2021-22 | ECE |
| 531. | Automated Communication of Emails and Dynamic Attachments through RPA Blue Prism | 2021-22 | ECE |
| 532. | Google Glass | 2021-22 | ECE |
| 533. | Edge Computing | 2021-22 | ECE |
| 534. | Solar Tree: An Epic Source of Energy. | 2021-22 | ECE |
| 535. | Smart Quill | 2021-22 | ECE |
| 536. | Recent Advances in Vehicle-Embedded Systems | 2021-22 | ECE |
| 537. | Underwater Wireless Sensor Networks | 2021-22 | ECE |
| 538. | Biometrically Secured ATM System | 2021-22 | ECE |
| 539. | Multiple Laser Alarm System Using Arduino UNO | 2021-22 | ECE |
| 540. | V2X, Vehicle to Everything | 2021-22 | ECE |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Technical
Seminars

IQAC

| 541. | E-Ball Technology | 2021-22 | ECE |
|------|--|---------|-----|
| 542. | Automatic Rain Sensing Wiper | 2021-22 | ECE |
| 543. | Smart Medical Mirror. | 2021-22 | ECE |
| 544. | Automated public Transport Ticketing System | 2021-22 | ECE |
| 545. | Design for Testability in Timely Testing of VLSI Circuits | 2021-22 | ECE |
| 546. | String Battery | 2021-22 | ECE |
| 547. | LI-FI, Optical Wireless Technology | 2021-22 | ECE |
| 548. | Poly Fuse | 2021-22 | ECE |
| 549. | Infrared plastic solar cell technology | 2020-21 | ECE |
| 550. | Atomic scale memory at a silicon surface | 2020-21 | ECE |
| 551. | E-ink display technology | 2020-21 | ECE |
| 552. | Solar tree | 2020-21 | ECE |
| 553. | Battery less smart phones | 2020-21 | ECE |
| 554. | Barcode technology | 2020-21 | ECE |
| 555. | E-textile | 2020-21 | ECE |
| 556. | Finfet Technology | 2020-21 | ECE |
| 557. | Bio battery | 2020-21 | ECE |
| 558. | Augmented reality in industry | 2020-21 | ECE |
| 559. | Electronic nose | 2020-21 | ECE |
| 560. | WIBREE TECHNOLOGY | 2020-21 | ECE |
| 561. | Ecommerce-opportunities and challenges | 2020-21 | ECE |
| 562. | Biochips | 2020-21 | ECE |
| 563. | Nanotechnology | 2020-21 | ECE |
| 564. | Surge current protection using superconductors | 2020-21 | ECE |
| 565. | Hybrid Power Generation System Using Solar Energy and Wind Energy | 2020-21 | ECE |
| 566. | Paper battery | 2020-21 | ECE |
| 567. | Multilayer organic light emitting diode | 2020-21 | ECE |
| 568. | Wireless power transmission technology | 2020-21 | ECE |
| 569. | Plasmonics | 2020-21 | ECE |
| 570. | Life detection system | 2020-21 | ECE |
| 571. | Electronics bus ticketing system | 2020-21 | ECE |
| 572. | BLUE BRAIN-Bringing A Virtual Brain To Life | 2020-21 | ECE |
| 573. | Wireless communications and applications Above100ghz opportunities and challenges for and beyond | 2020-21 | ECE |
| 574. | Navigation with Indian constellation Navie | 2020-21 | ECE |
| 575. | E-waste management | 2020-21 | ECE |
| 576. | White led | 2020-21 | ECE |
| 577. | | 2020-21 | ECE |
| 578. | Gi-fi technology | | ECE |
| 579. | Lean and Kanban Methodology | 2020-21 | |
| | Polymer light emitting diode | 2020-21 | ECE |
| 580. | Artificial intelligence for enhancing | 2020-21 | ECE |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Technical
Seminars

IQAC

| | Clinical medicine | | |
|------|--|---------|-----|
| 581. | Towards a Wireless and Low-Power Infrastructure for | | ECE |
| | Representing | 2020-21 | |
| | Information Based on E-Paper Displays | | |
| 582. | Cruise control | 2020-21 | ECE |
| 583. | Firewall: the cyber security | 2020-21 | ECE |
| 584. | Organic Light Emitting Diode | 2019-20 | ECE |
| 585. | Navigation with Indian constellation (NavIC) | 2019-20 | ECE |
| 586. | Artificial Intelligence in Power Systems | 2019-20 | ECE |
| 587. | HAWKEYE Technology | 2019-20 | ECE |
| 588. | Adaptive Headlight System | 2019-20 | ECE |
| 589. | Bionic Eye | 2019-20 | ECE |
| 590. | A Scenario on Big Data | 2019-20 | ECE |
| 591. | Protein based Memory | 2019-20 | ECE |
| 592. | Paper Battery | 2019-20 | ECE |
| 593. | Laser Communication | 2019-20 | ECE |
| 594. | Face Recognition Technology | 2019-20 | ECE |
| 595. | Smart Dust Technology | 2019-20 | ECE |
| 596. | Underwater Wireless Communication | 2019-20 | ECE |
| 597. | Wearable Biosensors Technology | 2019-20 | ECE |
| 598. | Blue Brain Technology | 2019-20 | ECE |
| 599. | Smart Antenna for Mobile Communication | 2019-20 | ECE |
| 600. | Bio Battery | 2019-20 | ECE |
| 601. | Brain Gate Technology | 2019-20 | ECE |
| 602. | 5g Wireless Technology | 2019-20 | ECE |
| 603. | Rain Technology | 2019-20 | ECE |
| 604. | Solar Tree | 2019-20 | ECE |
| 605. | GIFI Next Generation Wireless Technology | 2019-20 | ECE |
| 606. | Pill Camera | 2019-20 | ECE |
| 607. | Space solar power | 2019-20 | ECE |
| 608. | Solar mobile charger | 2019-20 | ECE |
| 609. | Wireless Intelligent Network | 2019-20 | ECE |
| 610. | Rfid Tag System | 2019-20 | ECE |
| 611. | Microelectronic pill | 2019-20 | ECE |
| 612. | Smart power generation from waste heat by Thermoelectric | 2019-20 | ECE |
| 610 | genetator | | ECE |
| 613. | Silent Sound Technology | 2019-20 | ECE |
| 614. | Haptic Technology | 2019-20 | ECE |
| 615. | Google Glass | 2019-20 | ECE |
| 616. | Mems Technology | 2019-20 | ECE |
| 617. | Augmented Reality in industry 4.0 | 2019-20 | ECE |
| 618. | 9G mobile Technology | 2019-20 | ECE |
| 619. | Plasma antenna Technology | 2019-20 | ECE |
| 620. | Automatic meter Reading | 2019-20 | ECE |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC
Academics
Student Centric
Methods
Technical
Seminars

| 621. | Ayla Networks ny Ayla | 2018-19 | ECE |
|------|--|---------|-----|
| 622. | Watson IoT Platform | 2018-19 | ECE |
| 623. | Virtual Reality | 2018-19 | ECE |
| 624. | RIOT OS IOT Devices | 2018-19 | ECE |
| 625. | Things Speak web Service for IoT | 2018-19 | ECE |
| 626. | Optical Heterodyning in Microwave Photonic Receiver for Radar Applications | 2018-19 | ECE |
| 627. | Attendance and Security Assurance using Image Processing | 2018-19 | ECE |
| 628. | Wireless Power transfer Solution for Smart-Charger with RF Energy Harvesting in Public Area | 2018-19 | ECE |
| 629. | Lite OS | 2018-19 | ECE |
| 630. | TinyOS | 2018-19 | ECE |
| 631. | Nano RK OS | 2018-19 | ECE |
| 632. | Micro LED Displays | 2018-19 | ECE |
| 633. | Polytronics | 2018-19 | ECE |
| 634. | Free Space Optics | 2018-19 | ECE |
| 635. | Infrared Plastic Solar Cell | 2018-19 | ECE |
| 636. | Gi-Fi Technology | 2018-19 | ECE |
| 637. | Smart Antennas for Satellite Communication on the Move | 2018-19 | ECE |
| 638. | Multicore Processor Technology | 2018-19 | ECE |
| 639. | Skin put Technology | 2018-19 | ECE |
| 640. | Brain Computer Interface | 2018-19 | ECE |
| 641. | Laser Guided Missile | 2018-19 | ECE |
| 642. | Li-Fi Technology in Traffic Light | 2018-19 | ECE |
| 643. | CONtiki OS | 2018-19 | ECE |
| 644. | Touch less Touch screen technology | 2018-19 | ECE |
| 645. | BOSCH IOT Suite | 2018-19 | ECE |
| 646. | Seamless Access Networks using Radio-Over-Fiber Technology for High-Speed Trains | 2018-19 | ECE |
| 647. | Wireless Power Transfer | 2018-19 | ECE |
| 648. | Gigahertz Wireless Power Transmission for Solar Power Satellite | 2018-19 | ECE |
| 649. | Vehicle management system | 2018-19 | ECE |
| 650. | Landline Detection using Impulse Ground Penetrating Radar | 2018-19 | ECE |
| 651. | Ultra Wide band technology Creating a Wireless World | 2018-19 | ECE |
| 652. | SAMSUNG Artik IOT Platform | 2018-19 | ECE |
| 653. | Mind sphere by Siemens IOT Platform | 2018-19 | ECE |
| 654. | Microsoft Azure IOT Platform | 2018-19 | ECE |
| 655. | LoRa WAN | 2018-19 | ECE |
| 656. | Laser Frequiency Combs for Coherent optical Communications | 2018-19 | ECE |
| 657. | Zetta:An API-First IOT Platform | 2018-19 | ECE |
| 658. | Battery Les Phone | 2018-19 | ECE |
| 659. | Agricultural Robotics | 2018-19 | ECE |
| 660. | Underwater Wireless Communication | 2018-19 | ECE |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric

Methods

Technical

Seminars

| | 1 | |
|---|--|---|
| | | ECE |
| | | ECE |
| | | ECE |
| | - | ECE ECE |
| | | EEE |
| | | EEE |
| - | 2018-19 | |
| Increasing transfer capability of the transmission system using the methodological data | 2018-19 | EEE |
| Cloud based automated irrigation and plant leaf disease detection system using an android application | 2018-19 | EEE |
| Community energy storage | 2018-19 | EEE |
| Artificial intelligence and robotics | 2018-19 | EEE |
| Prevention of distribution transformer premature failures | 2018-19 | EEE |
| Laser guided missiles | 2018-19 | EEE |
| Vortex bladeless wind power generator | 2018-19 | EEE |
| Plastic Electronics based conformable electronic circuits | 2018-19 | EEE |
| High temperature conductors | 2018-19 | EEE |
| Vertically mounted bifacial photovoltaic modules | 2018-19 | EEE |
| Protection challenges under bulk penetration of renewable energy resources in power systems | 2018-19 | EEE |
| Fault location on mixed overhead line and cable transmission networks | 2018-19 | EEE |
| Cloud based automatic street light monitoring system | 2018-19 | EEE |
| A review of recent trends in wireless power transfer technology and its application in electric vehicle wireless charging | 2018-19 | EEE |
| Brain computer interface | 2018-19 | EEE |
| Generation of electricity from ocean waves | 2018-19 | EEE |
| Electric grid disaster response management | 2018-19 | EEE |
| Infrared plastic solar cell | 2018-19 | EEE |
| Design and modeling of dc/dc boost converter for mobile device application | 2018-19 | EEE |
| Modern Electrical Machine Design Optimization: Techniques, Trends and Best Practices | 2018-19 | EEE |
| Power quality enhancement of variable frequency drive by PWM bridgeless dual boost converter | 2018-19 | EEE |
| Utilization of energy storages to secure electricity supply in electricity distribution network | 2018-19 | EEE |
| | Cloud based automated irrigation and plant leaf disease detection system using an android application Community energy storage Artificial intelligence and robotics Prevention of distribution transformer premature failures Laser guided missiles Vortex bladeless wind power generator Plastic Electronics based conformable electronic circuits High temperature conductors Vertically mounted bifacial photovoltaic modules Protection challenges under bulk penetration of renewable energy resources in power systems Fault location on mixed overhead line and cable transmission networks Cloud based automatic street light monitoring system A review of recent trends in wireless power transfer technology and its application in electric vehicle wireless charging Brain computer interface Generation of electricity from ocean waves Electric grid disaster response management Infrared plastic solar cell Design and modeling of dc/dc boost converter for mobile device application Modern Electrical Machine Design Optimization: Techniques, Trends and Best Practices Power quality enhancement of variable frequency drive by PWM bridgeless dual boost converter Utilization of energy storages to secure electricity supply in | Tsunami Warning System Sales force IOT Cloud Real sense OS foe X Mocana IOT Platform Battery less phone 2018-19 Tesla coil wireless power transmission Increasing transfer capability of the transmission system using the methodological data Cloud based automated irrigation and plant leaf disease detection system using an android application Community energy storage Artificial intelligence and robotics Prevention of distribution transformer premature failures Laser guided missiles Vortex bladeless wind power generator Plastic Electronics based conformable electronic circuits High temperature conductors Vertically mounted bifacial photovoltaic modules Protection challenges under bulk penetration of renewable energy resources in power systems Fault location on mixed overhead line and cable transmission networks Cloud based automatic street light monitoring system A review of recent trends in wireless power transfer technology and its application in electric vehicle wireless charging Brain computer interface Generation of electricity from ocean waves Electric grid disaster response management Infrared plastic solar cell Design and modeling of dc/dc boost converter for mobile device application Modern Electrical Machine Design Optimization: Techniques, Trends and Best Practices Power quality enhancement of variable frequency drive by PWM bridgeless dual boost converter Utilization of energy storages to secure electricity supply in |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Technical
Seminars

IQAC

| 690. | Tsunami warning system | 2018-19 | EEE |
|------|--|---------|-----|
| 691. | Artificial intelligence in solar energy application | 2018-19 | EEE |
| 692. | Electric vehicle charging station technologies based on smart grid | 2018-19 | EEE |
| 693. | Fire fighting robotic vehicle | 2018-19 | EEE |
| 694. | Artificial intelligence in power system | 2018-19 | EEE |
| 695. | Night vision technology | 2018-19 | EEE |
| 696. | Electricity production coupled with waste water treatment using microbial fuel cell | 2018-19 | EEE |
| 697. | Blue brain | 2018-19 | EEE |
| 698. | Advancement in inverter technology for industrial applications | 2018-19 | EEE |
| 699. | Hybrid battery technology with battery management system | 2018-19 | EEE |
| 700. | Advanced communication through flesh redtaction | 2018-19 | EEE |
| 701. | Overview of Adaptive Protection System for modern power system | 2018-19 | EEE |
| 702. | Utilities investments into residential properties: PV solar system | 2018-19 | EEE |
| 703. | Smart grid challenges, issues and solutions | 2018-19 | EEE |
| 704. | Recent advances in industrial wireless sensor networks towards efficient management in IOT | 2018-19 | EEE |
| 705. | Solid waste management | 2018-19 | EEE |
| 706. | Gas insulated substation | 2018-19 | EEE |
| 707. | Automatic charging lane for electric vehicle | 2018-19 | EEE |
| 708. | Nano generators | 2018-19 | EEE |
| 709. | Plasma Antenna | 2018-19 | EEE |
| 710. | Eddy current brake- An advanced braking system | 2018-19 | EEE |
| 711. | Wireless smart grid design for monitoring and optimization electric transmission | 2018-19 | EEE |
| 712. | G2V and V2G Electric vehicle charger for smart grids | 2018-19 | EEE |
| 713. | Development of high efficiency photovoltaic solar cell | 2019-20 | EEE |
| 714. | Smart solutions for smart city: Digital Solutions for a more livable future | 2019-20 | EEE |
| 715. | Optimization of Electric drives for traction applications | 2019-20 | EEE |
| 716. | Wireless Power Transmission Via Solar Power Satellite | 2019-20 | EEE |
| 717. | Magenn Power Air Rotor System | 2019-20 | EEE |
| | | | |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Student Centric Methods Technical Seminars

IQAC

Academics

| 719. | Touchless touch screen technology | 2019-20 | EEE |
|------|--|---------|-----|
| 720. | AUGEMTED Reality | 2019-20 | EEE |
| 721. | Artificial Eye | 2019-20 | EEE |
| 722. | Vortex Induced Vibration Resonant Wind Generators | 2019-20 | EEE |
| 723. | Air Powered Car – Future of Transportation | 2019-20 | EEE |
| 724. | Automatic changeover switch (with step loading) for renewable energy systems | 2019-20 | EEE |
| 725. | Recent development in HVDC | 2019-20 | EEE |
| 726. | RedTacton- A Human Area Networking Technology | 2019-20 | EEE |
| 727. | Wireless power sharing | 2019-20 | EEE |
| 728. | Graphene Battery | 2019-20 | EEE |
| 729. | Microgrid energy management system | 2019-20 | EEE |
| 730. | Recent Advancements is design of Amorphous core transformer | 2019-20 | EEE |
| 731. | Optical Computer- A Future of Technology | 2019-20 | EEE |
| 732. | Infrared Thermography: A versatile technology for condition monitoring and energy conservation | 2019-20 | EEE |
| 733. | IONTOPHORESIS | 2019-20 | EEE |
| 734. | Robotic monitoring of power systems | 2019-20 | EEE |
| 735. | Electricity and Industry 4.0 | 2019-20 | EEE |
| 736. | SUNBOT: Solar cells that track the sun like sunflower | 2019-20 | EEE |
| 737. | Google Glass | 2019-20 | EEE |
| 738. | HVDC Light | 2019-20 | EEE |
| 739. | A uW Backscatter-Morse-Leaf Sensor for Low-Power Agricultural Wireless Sensor Networks | 2019-20 | EEE |
| 740. | Electrical Machines in Electric Aircraft and their impact on the environment | 2019-20 | EEE |
| 741. | Leafshafed Triboelectric Nanogenerators | 2019-20 | EEE |
| 742. | Power Generation System using SCO2 | 2019-20 | EEE |
| 743. | Virtual Labs of conventional electric machines | 2019-20 | EEE |
| 744. | Hybrid Electrical Vehicle with Reduced Voltage Induction Motor Drive | 2019-20 | EEE |
| 745. | Recent Advancement in super capacitor Technology | 2019-20 | EEE |
| 746. | Blue Brain Technology | 2019-20 | EEE |
| 747. | Brain gate Technology | 2019-20 | EEE |
| 748. | 6G Mobile Technology | 2019-20 | EEE |
| | | | |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Technical
Seminars

IQAC

| 750. | Artificial Intelligence and power station | 2019-20 | EEE |
|------|--|---------|-----|
| 751. | Recent Advancements in Distribution Automation | 2019-20 | EEE |
| 752. | Plasmonic Conversion of Solar Energy | 2019-20 | EEE |
| 753. | Augmented Reality in Industry 4.0: Industrial Perspective | 2019-20 | EEE |
| 754. | 3D Integrated Circuits | 2019-20 | EEE |
| 755. | Carbon Nan tube based paper battery | 2019-20 | EEE |
| 756. | LPG Gas Leakage sensor | 2019-20 | EEE |
| 757. | Smart transmission system by HVDC and facts | 2019-20 | EEE |
| 758. | Solar thermal power | 2019-20 | EEE |
| 759. | Controlled AC Electrical Drives` | 2019-20 | EEE |
| 760. | Harnessing electricity by rain drop | 2019-20 | EEE |
| 761. | Biometric Authentication | 2019-20 | EEE |
| 762. | Current measurement using optical current transformer | 2019-20 | EEE |
| 763. | Carbon nano tubes in solar panel technology | 2019-20 | EEE |
| 764. | Current Li ion Battery Technologies in electrical vehicles and opportunities for advancement | 2019-20 | EEE |
| 765. | MPPT controller for PV and wind energy conversion systems | 2020-21 | EEE |
| 766. | Speed control of DC motor using PIC controller. | 2020-21 | EEE |
| 767. | Design and development of solar Bi-Cycle | 2020-21 | EEE |
| 768. | Designing of Smart drip Irrigation System for remote hilly areas | 2020-21 | EEE |
| 769. | Speed Control of BLDC Motor using PWM Technique | 2020-21 | EEE |
| 770. | ARDUINO in latest technology | 2020-21 | EEE |
| 771. | Image Segmentation and Feature Extraction | 2020-21 | EEE |
| 772. | Digital Image Processing | 2020-21 | EEE |
| 773. | Non-isolated DC to DC boost converter for renewable energy systems | 2020-21 | EEE |
| 774. | Wind Turbine Condition Monitoring and Fault Diagnosis | 2020-21 | EEE |
| 775. | Modeling and simulation of wind turbine generator using MATLAB-simulink | 2020-21 | EEE |
| 776. | Integrated DC to AC converter for hybrid power system | 2020-21 | EEE |
| 777. | Autonomous vehicle control using image processing | 2020-21 | EEE |
| 778. | Electrical Tricycle | 2020-21 | EEE |
| 779. | PCA Implementation in power system | 2020-21 | EEE |
| 780. | Early Event detection in power system | 2020-21 | EEE |
| 781. | Artificial Intelligence in power system | 2020-21 | EEE |



Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Technical
Seminars

IQAC

| 782. | Modeling of solar PV array in hybrid power system | 2020-21 | EEE |
|------|--|---------|-----|
| 783. | Speed control of BLDC motor using FLC | 2020-21 | EEE |
| 784. | Convolution Neural Network | 2020-21 | EEE |
| 785. | Solar Tracking System using Microcontroller | 2020-21 | EEE |
| 786. | Performance analysis of BLDC Motor under varying load | 2020-21 | EEE |
| 787. | Image Processing for weed detection in Agriculture | 2020-21 | EEE |
| 788. | Different Pole Arc and Different Magnet Combination to Reduce the Cogging Torque in PMDC Motors | 2020-21 | EEE |
| 789. | Analysis of optical character recognition technology | 2020-21 | EEE |
| 790. | Working of permanent magnet brushless under over voltage. | 2020-21 | EEE |
| 791. | Wind turbine performance analysis for energy cost minimization. | 2020-21 | EEE |
| 792. | Wind turbine blade design. | 2020-21 | EEE |
| 793. | Advancements in solar power satellite & space rectenna systems. | 2021-22 | EEE |
| 794. | Internet of things in power system. | 2021-22 | EEE |
| 795. | Recent trends in silent sound technology | 2021-22 | EEE |
| 796. | Recent advances in use of thermoelectric materials in renewable energy generation. | 2021-22 | EEE |
| 797. | Variable frequency drive & its industrial applications. | 2021-22 | EEE |
| 798. | Power Electronics in Renewable Energy systems. | 2021-22 | EEE |
| 799. | Battery power management for portable devices. | 2021-22 | EEE |
| 800. | Battery power management IC's | 2021-22 | EEE |
| 801. | Sustainable energy system with HVDC transmission. | 2021-22 | EEE |
| 802. | Recent development in Maglev Train | 2021-22 | EEE |
| 803. | Automatic braking system using ultrasonic sensor. | 2021-22 | EEE |
| 804. | Hybrid Electric vehicles. | 2021-22 | EEE |
| 805. | Electricity theft detection & localization in smart grids for Industry 4.0 | 2021-22 | EEE |
| 806. | Flexible lithium ion planer thin film battery. | 2021-22 | EEE |
| 807. | Single electron Transistor | 2021-22 | EEE |
| 808. | Ultrasonic motor | 2021-22 | EEE |
| 809. | PMU based wide area monitoring system in Indian power grid. | 2021-22 | EEE |
| 810. | Fault detection & classification using PMU measurements. | 2021-22 | EEE |
| 811. | Cascading failure in power grid analysis & algorithms. | 2021-22 | EEE |
| 812. | Infrared plastic solar cell. | 2021-22 | EEE |
| 813. | Skin put technology | 2021-22 | EEE |
| 814. | Blue eyes technology | 2021-22 | EEE |
| 815. | Advances in wireless electricity Transmission. | 2021-22 | EEE |
| 816. | Bio Battery | 2021-22 | EEE |
| 817. | Advances in Inverter technology for industry application. | 2021-22 | EEE |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

Recognized under2(f) &12B of UGC Act, 1956

Student Centric Methods **Technical**

Seminars

IQAC

Academics

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | Intelligent management of electrical systems in industries. | 2021-22 | EEE |
|------|--|---------|-----|
| 819. | PPTC devices for protection of battery packs. | 2021-22 | EEE |
| 820. | Net zero energy building | 2021-22 | EEE |
| 821. | Electrical Bio chip technology-A tool for microarrays & continuous monitoring. | 2021-22 | EEE |
| 822. | Recent technologies on under water optical communication system. | 2021-22 | EEE |
| 823. | Air cooling using unsaturated air. | 2021-22 | EEE |
| 824. | Detection of illegal Electricity usage. | 2021-22 | EEE |
| 825. | Power system blackout: Research motivations & challenges. | 2021-22 | EEE |
| 826. | Hyperloop Transportation System | 2022-23 | EEE |
| 827. | Global Progress towards Renewable Electricity: Tracking the role of solar | 2022-23 | EEE |
| 828. | Smart grid Management using AI & ML | 2022-23 | EEE |
| 829. | Automatic Substation load Shedding and Sharing | 2022-23 | EEE |
| 830. | Fault identification of power equipment based on image preprocessing | 2022-23 | EEE |
| 831. | Autonomous underwater vehicle | 2022-23 | EEE |
| 832. | Use of GPS Navigation for driverless cars | 2022-23 | EEE |
| 833. | Object detection using Deep learning | 2022-23 | EEE |
| 834. | Bladeless Wind Turbine | 2022-23 | EEE |
| 835. | Graphene Super capacitor | 2022-23 | EEE |
| 836. | The Future Robotics Technology | 2022-23 | EEE |
| 837. | Application of Virtual reality Technology for study of power system | 2022-23 | EEE |
| 838. | Smart Load Control | 2022-23 | EEE |
| 839. | Wave Energy Converter | 2022-23 | EEE |
| 840. | Smart Farming the Future of Modern Agriculture | 2022-23 | EEE |
| 841. | HVDC Light-A New Technology Analysis | 2022-23 | EEE |
| 842. | Fuel cell power generation | 2022-23 | EEE |
| 042. | E SOUR E STORE FOR THE STORE S | 2022-23 | |

Dr.S.N.Topannavar **IQAC** Coordinator

IQAC Coordinator Hirasugar Institute of Technology Nidasoshi-591236



Dr.S.C.Kamate Principal

PRINCIPAL

Hirasugar Institute of Technology Nidasoshi-591 236

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in

Page 23 of 23

Est ()) see

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics
Student Centric
Methods
Internships, Field
work & Visits

List of experiments conducted by the students

Institute is permanently affiliated to the Visvesvaraya Technological University, Belgaum. In view of NEP-2020 based revised curriculum of the affiliated university, the following experiments are conducted by the students as per the time table during every academic year. The lab journal/report submitted by the student, observations and results of each experiment, discussion on results and conclusions are continuously evaluated by the course coordinator as per the university guidelines. The realization of theoretical concepts and experimental results of each student are also evaluated in the internal assessment after completion of all experiments of the course through proper rubrics and in the semester end exams as per the university guidelines by the internal and external evaluators. The students are also conducted the integrated lab experiments of professional core courses (IPCC) as per the revised curriculum of the university recommended by AICTE. The following are the list of aims of experiments conducted by the students during last five years.

| S.N. | Title/Aim of the Experiment | Dept. |
|------|--|-------|
| 1. | To determine the co-efficient of discharge of venturimeter and to draw following graphs. | ME |
| | 1) Actual Discharge Vs Head, 2) Co-efficient of Discharge Vs Head | |
| 2. | To determine the co-efficient of discharge of Orifice meter and draw the following graphs | ME |
| | 1) Actual Discharge Vs Head 2) Co-efficient of Discharge Vs Head | |
| 3. | To determine the co-efficient of friction in pipe. | ME |
| 4. | To determine the loss of velocity co-efficient due to minor losses. | ME |
| 5. | To determine the co-efficient of discharge of Triangular or V - Notch. | ME |
| 6. | To determine impact of jet on Vane and to draw the following & to Draw the following Curves, 1) Discharge V/s efficiency, 2) Discharge V/s force Lifted. | ME |
| 7. | To study the performance of a centrifugal pump at constant speed. and to draw the following Curves,1) Head Vs Overall efficiency. 2) Head Vs output Power. | ME |
| 8. | To study the performance of Reciprocating Pump at constant speed and to draw the following a curves. 1) Head Vs Overall efficiency, 2) Head Vs output Power. | ME |
| 9. | To study the performance of Pelton wheel under various load conditions and to draw following graphs. 1) Speed Vs Output power, 2) Speed Vs Efficiency | ME |
| 10. | To study the performance of Francis Turbine at constant head and to draw following graphs. 1) Speed Vs Output power 2) Speed Vs Efficiency | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

11. ME To study the performance of Kaplan Turbine at constant head and to draw following graphs. 1) Speed Vs Output power 2) Speed Vs Efficiency 12. ME To determine the volumetric efficiency of an Air compressor. To determine the flash point of given sample of oil by using Cleavland Apparatus 13. ME 14. To determine the flash point of given sample of oil by using Penesky Martins ME Apparatus. 15. To determine the flash point of given sample of oil by using Abel's Apparatus. ME To determine the viscosity of given sample of oil by using Redwood Viscometer. ME 16. To determine the viscosity of given sample of oil by using Saybolt Viscometer. ME 17. ME 18. To determine the viscosity of given sample of oil by using Torsion Viscometer. 19. To determine the calorific value of solid fuel by using Bomb Calorimeter. ME 20. To determine the calorific value of liquid fuel by using Junkers Gas Calorimeter. ME 21. To conduct a performance test on two strokes single cylinder petrol engine. ME 22. To prepare the heat balance sheet on two stroke single cylinder petrol engine. ME 23. To conduct performance test on the VCR engine under compression ratio _ ME draw the graphs. (1. Sfc vs BP and 2. Mfc vs BP) 24. To prepare the heat balance sheet on the VCR engine under compression ratio ME 25. To conduct a performance test on the four stroke single cylinder diesel engine & ME draw the graphs. (1. Sfc vs BP and 2. Mfc vs BP) To prepare the heat balance sheet on the four stroke single cylinder diesel engine. ME 26. Determination of equilibrium speed, sensitiveness, power, controlling force & Effort of 27. ME Porter Governor. Determination of equilibrium speed, sensitiveness, power, controlling force & Effort of ME 28. Proell Governor. To verify the gyroscope relationship C=I ω ωp 29. ME Where:-I =moment of inertia. ω = angular velocity of rotor. Rad./sec. ωp = angular velocity of precision. Rad/sec. To determine the critical speed of a shaft and compare the actual value with the 30. ME theoretical value. To determine static deflection, stiffness of the given spring & also find the natural 31. ME Frequency of spring mass system. (Free Longitudinal Vibration). To study the forced vibrations of equivalent spring mass damper system under different 32. ME damping conditions, and plot the Amplitude v/s Frequency curve. To determine the natural frequency, Torsional stiffness, logarithmic decrement, damping 33. ME ratio, damping coefficient for torsional viscous damper. Also plot the graph of damping ratio v/s depth of immersion. 34. To conduct an experiment on balancing of rotating masses for both Static balance and ME dynamic balance. To conduct the performance test on the Journal Bearing and study the effect of speed and ME 35. load on the pressure distribution in Journal Bearing. Determination of material fringe value and fringe constant for photo elastic material 36. ME using circular disc. 37. ME Determination of fringe constant of photo elastic material using four point Bending

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Student Centric
Methods

Internships, Field work & Visits

| | arrangement | |
|-----|--|----|
| 38. | In a plate with a circular hole under axial loading. Find deformed shape of hole & determine maximum stress distribution along AB, thickness of plate is 10mm & Dia. of hole is 40mm, size of plate is 200mm X 100mm & axial load is 200KN. One end is fixed, other end is free. Take E = | ME |
| | 2X10 ⁵ MPa. | |
| | φ40mm 200KN t=10mm | |
| 39. | In a plate with a circular hole under axial loading. Find deformed shape of hole & determine maximum stress distribution along AB, thickness of | ME |
| | plate is 10mm & Dia. of hole is 10mm, size of plate is 80mm x 50mm & axial load is10KN. One end is fixed, other end is free. Take E = 2X10 ⁵ MPa? | |
| | 10KN | |
| 40. | Determine the Nodal Displacement, Stresses & reaction forces for the tapered bar, the cross-sectional area decreases linearly from 1000mm^2 to 500mm^2 . Young's Modulus $E = 2 \times 10^5 \text{ N/mm}^2$? Area A ₁ = 1000 mm ² A ₂ = 500 mm ² | ME |
| | 1000 mm ² P=1000N | |
| 41. | Find the Nodal Solution for the stepped bar both ends are fixed as shown in figure. It is subjected to axial load of 300KN. Also Determine displacement stress and reactions? Area A_1 =900 mm ² , A_2 = 1200 mm ² , E_1 = 70 x10 ³ N/ mm ² , E_2 = 200 x 10 ³ N/mm ² | ME |
| | A ₁ E ₁ P=300KN A ₂ E ₂ P=300KN | |
| 42. | Find the Nodal Displacement, stresses and reaction solutions for the structure as shown in the figure? | ME |

47.

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Internships, Field

IQAC

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

work & Visits E,=70 Gpa E,=105 Gpa .=200 Gpa P=10 KN 43. Determine the Nodal Displacement, Reaction Solution & Stress for the ME given bar? $E = 200 \text{ X } 10^3 \text{ N/mm}^2, P = 60 \text{ X } 10^3 \text{ N}$ $A1 = A2 = 250 \text{mm}^2$ Air Gap 300mm 1.2mm 44. For given truss find the following points? ME 1) Nodal Displacement, 2) Stresses 3) Reaction Solutions for a truss? Take Young's Modulus $E = 2 \times 10^5 \text{ N/mm}^2$ Area $A_1 = 1200 \text{mm}^2$ $A_2 = 1000 \text{mm}^2$ 500 mm For a three bar truss as shown in figure. Determine: Nodal Displacement, 45. **ME** Stresses. Reaction Solutions for the truss? Take Young's Modulus $\mathbf{E} =$ 200 Gpa. For given truss find the following points? 1.Nodal Displacement, 2. 46. ME Stresses, 3. Reaction Solutions for a truss? Take Young's Modulus $\mathbf{E} =$ 200 Gpa, $A_1 = A_2 = 200 \text{mm}^2$

500 mm

Simply supported beam subjected to concentrated load compute the

shear force (SFD) and bending moment diagram (BMD) for the beam as shown in fig. and reaction at the supports. Take rectangular C/S area is

300 mm

 $200 \text{mm} \times 300 \text{mm}$? $E = 2 \times 10^5 \text{ N/mm}^2$

ME

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

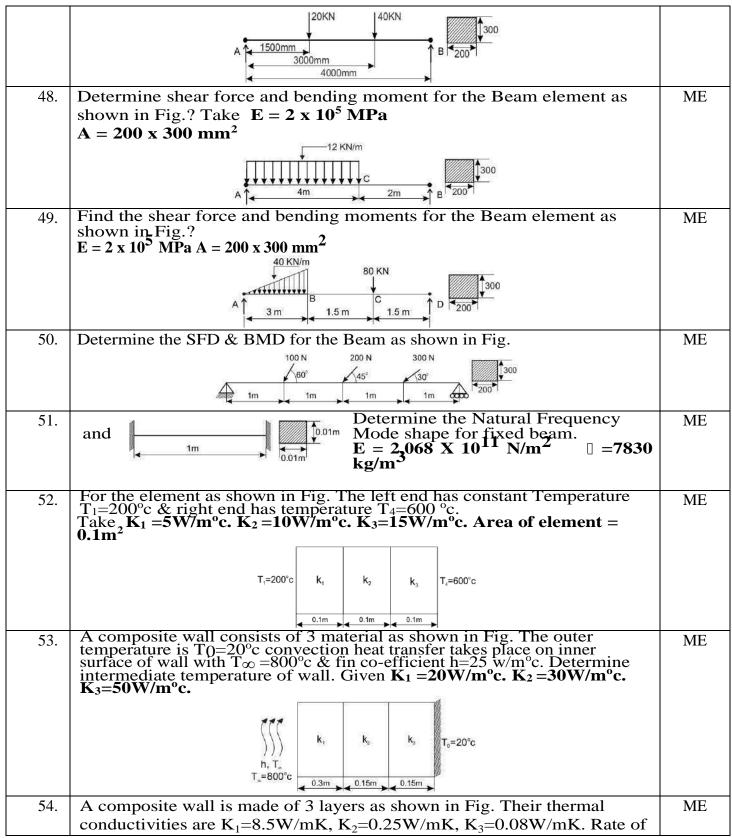
Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

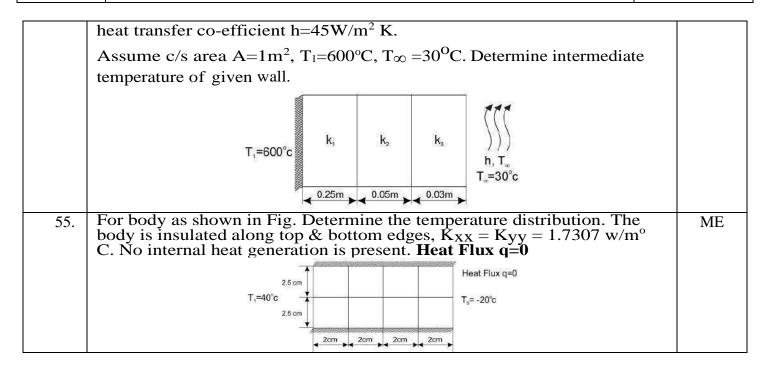


Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Internships, Field
work & Visits

IQAC



Hirasugar Institute of Technology, Nidasoshi

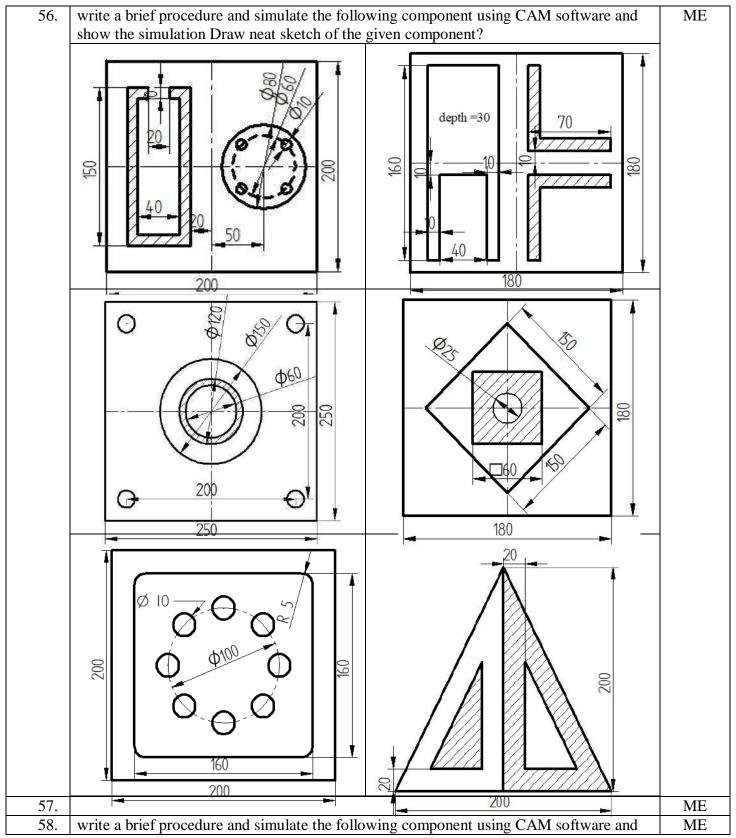
Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics Student Centric Methods

Internships, Field work & Visits



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

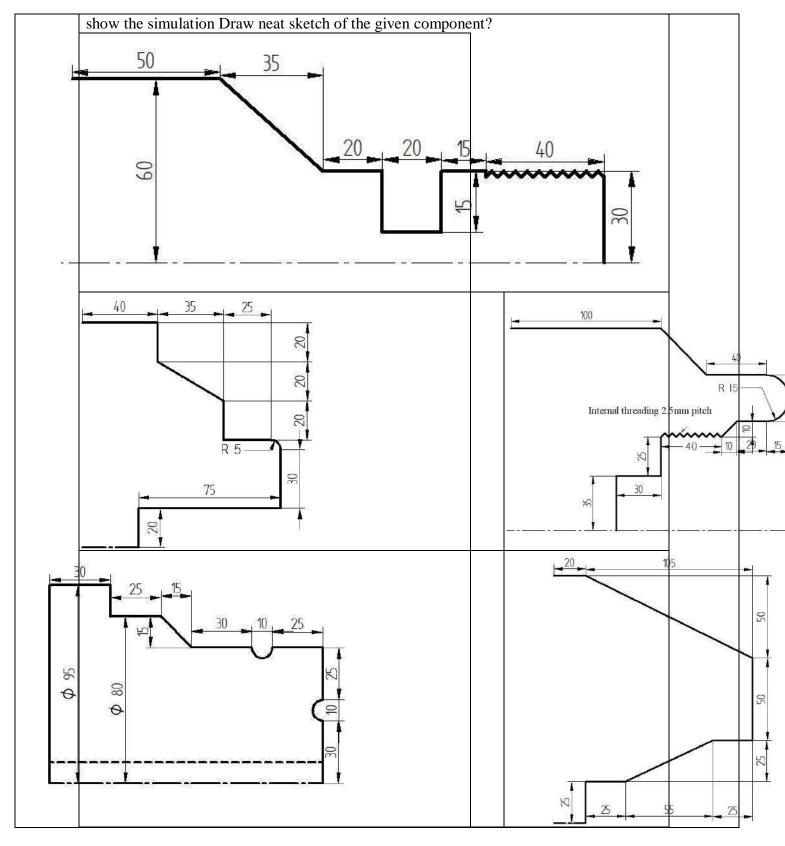
IQAC

Academics

Student Centric

Methods

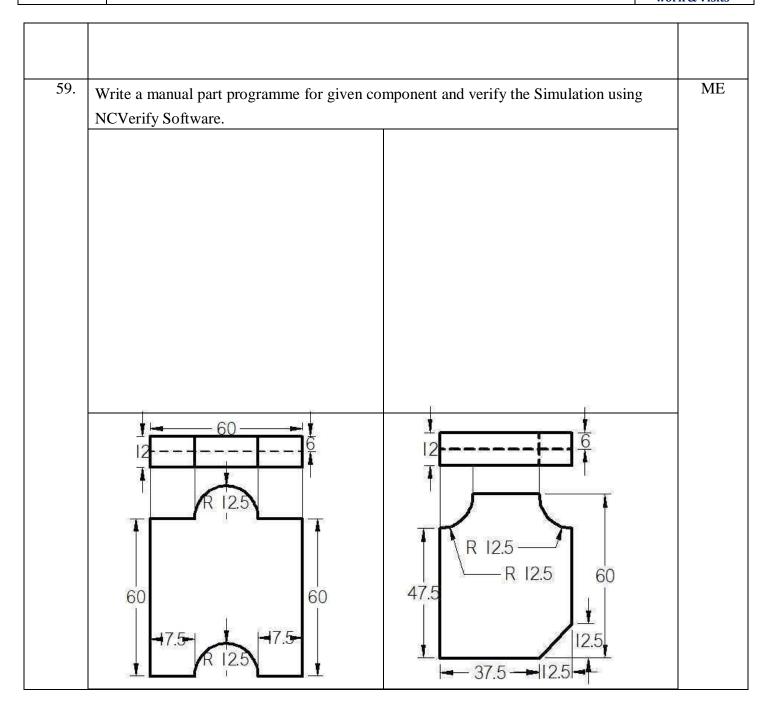
Internships, Field work & Visits



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Academics
Student Centric
Methods
Internships, Field
work & Visits

IQAC



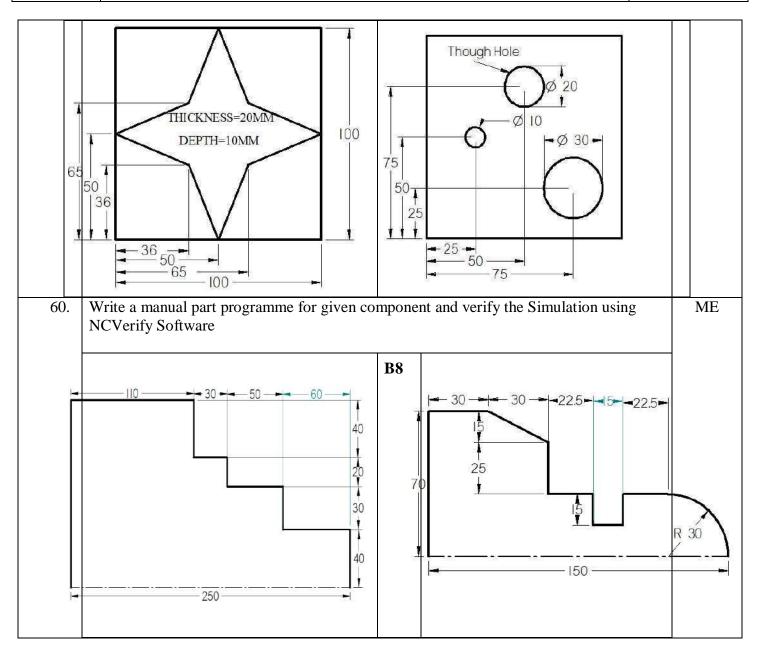
Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

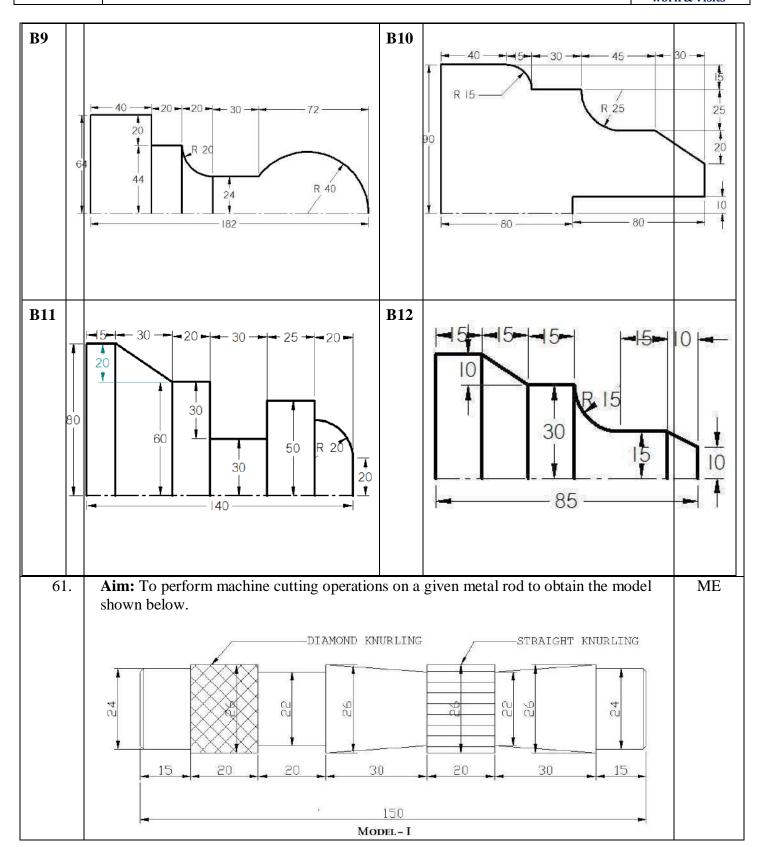
Academics Student Centric Methods



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE Academics
Student Centric
Methods
Internships, Field

IQAC



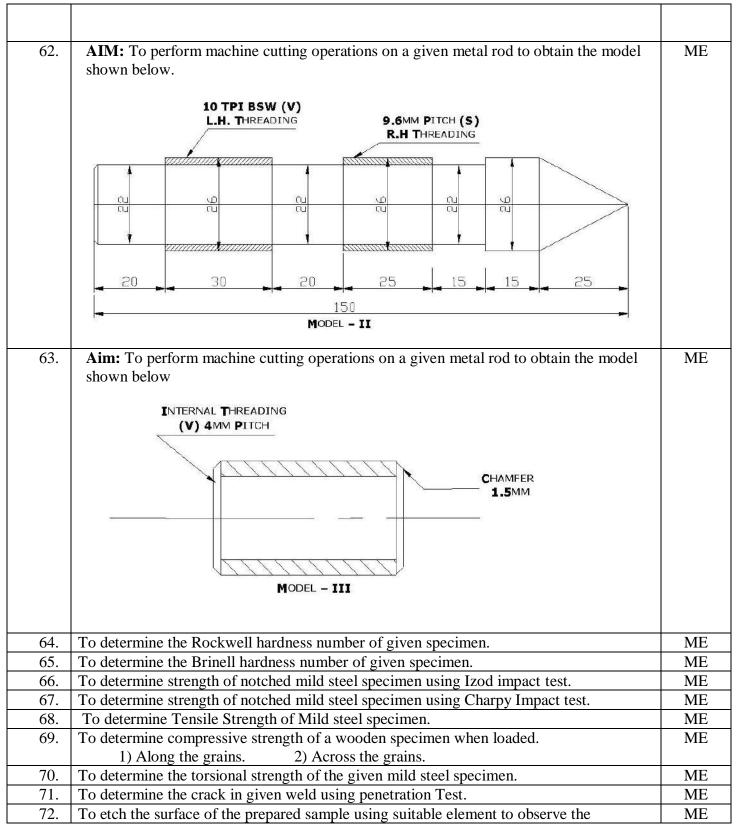
Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics Student Centric Methods



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | constituents of the micro-structure. | |
|------|---|----|
| 73. | To conduct static bending test on timber. | ME |
| 74. | To determine the ultimate shear stress of the given specimen in single and double shear. | ME |
| 75. | Heat Treatment of Mild steel. | ME |
| 76. | To determine the co-efficient of friction under test of the given material. | ME |
| | To determine the weight loss of given material under wear tester. | |
| 77. | To study the ultrasonic flow detector and to determine the location of the interior crack of | ME |
| | cavity given specimen | |
| 78. | To detect the surface or subsurface crack of the given ferromagnetic material. | ME |
| 79. | To study slip gauges and build up a slip gauge for given dimensions. | ME |
| 80. | To calibrate the given load cell with the help of fulcrum weights. | ME |
| 81. | To calibrate the thermocouple using glass thermometer. | ME |
| 82. | To determine the straightness & flatness of surface by using autocollimator. | ME |
| 83. | To determination of experimental young's modulus of aluminum specimen by using | ME |
| | strain gauges and compare with theoretical young's modulus. | |
| 84. | To calibrate the micrometer using slip gauges. | ME |
| 85. | To calibrate the LVDT with respect to micrometer by spring core method. | ME |
| 86. | To study the use of bevel protractor and to measure the angle. | ME |
| 87. | To measurement of angles using sine bar. | ME |
| 88. | To measurement of angles using sine centre. | ME |
| 89. | To measurement of gear tooth profile using gear tooth Vernier caliper. | ME |
| 90. | To measurement of the linear and angular parameters of screw thread using toolmaker's microscope. | ME |
| 91. | To measurement of the screw thread parameters using three wire method. | ME |
| 92. | To study the flatness of the surface by using optical flats. | ME |
| 93. | To conduct an experiment to find out the compression strength of the given sand test | ME |
| | specimen. | |
| 94. | To conduct an experiment to find out the shear strength of the given sand test specimen. | ME |
| 95. | To find the grain fineness no of the given sand sample. | ME |
| 96. | To determine the percentage of clay in the given sand sample. | ME |
| 97. | To determine the permeability no of given sand sample. | ME |
| 98. | To cut an ellipse of given dimensions. | ME |
| 99. | To make equilateral triangle core in a circle. | ME |
| 100. | To make hexagonal cavity in a square. | ME |
| 101. | To make round bar to square bar. | ME |
| 102. | To make eye hook in a round bar. | ME |
| 103. | To make round headed bolt using round bar. | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | Activated at A Grade by NAAC CITOgrammics Activated by NBA. CSL CLCL | work & | Visi ع |
|-----|--|--------|--------|
| | | | |
| 04. | Determination of Thermal Conductivity of a Metal Rod. | | MI |

| 104. | Determination of Thermal Conductivity of a Metal Rod. | ME |
|------|---|----|
| 105. | Determination of Overall Heat Transfer Coefficient of a Composite wall. | ME |
| 106. | Determination of Effectiveness on a Metallic fin. | ME |
| 107. | Determination of Heat Transfer Coefficient in a free Convection on a vertical tube. | ME |
| 108. | Determination of Heat Transfer Coefficient in a Forced Convention Flow through a Pipe. | ME |
| 109. | Determination of Emissivity of a Surface. | ME |
| 110. | Determination of Stefan Boltzman Constant. | ME |
| 111. | Determination of LMDT and Effectiveness in a Parallel Flow and Counter Flow Heat | ME |
| | Exchangers | |
| 112. | Experiments on Boiling of Liquid and Condensation of Vapour | ME |
| 113. | Performance Test on a Vapour Compression Refrigeration. | ME |
| 114. | Performance Test on a Vapour Compression Air - Conditioner | ME |
| 115. | Experiment on Transient Conduction Heat Transfer. | ME |
| 116. | Draw the projection of the following points on the same XY line, keeping convenient distance between each projector. Name the Quadrants in which they lie. A - 30 mm above HP & 35 mm in front of VP. B - 35 mm above HP & 40 mm behind VP. C - 40 mm above HP & on VP. | ME |
| 117. | D - 35 mm below HP & 30mm in front of VP. Draw the projection of the following points on the same XY line, keeping convenient distance between each projector. Name the Quadrants in which they lie. E - 30 mm below HP & 25 mm behind VP. F - 35 mm below HP & 30mm in front of VP. G - On HP & 30mm in front of VP. H - On HP & 30 mm behind VP. | ME |
| 118. | Draw and state the quadrants in which the following points are located. Assume any distance. A - Front view below XY line & top view above XY line. B - Front & Top views are below XY line. C - Front & Top views are above XY line. D - Front view above XY line & top view below XY line. | ME |
| 119. | A point 30mm above XY line is the front view of two points A& B. The top view of A is 40 mm behind VP & the top view of B is 45 mm front of VP draw the projection of the points & state the quadrants in which the points are situated. | ME |
| 120. | A point A is 30mm in front of VP and 40 mm above HP. Another point B is 20 mm behind VP & 35 mm below hp The horizontal distance between the points measured parallel to XY line is 60mm. Draw the three projections of the points. Join their front and top views. | ME |
| 121. | Draw all the three views of a point P lying 60mm below HP 70 mm in front of VP and 40 mm from the RPP. Also state the quadrants in which it lies. | ME |
| 122. | A point P is on HP and 30 mm in front of VP. Another point Q is on VP and below HP. The line joining their front views makes an angle of 30° to XY line while the line joining | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | their top views makes an angle of 45° with XY line. Find the distance of the point Q from HP. | |
|------|---|----|
| 123. | Two points R & S on HP. The point R is 35 mm in front of VP. While S is 50 mm behind VP. The line joining their top views makes an angle of 40° with XY. Find the horizontal distance between the two projectors. | ME |
| 124. | A point G is 25mm below HP & situated in the third quadrant its shortest distance from XY line is 45 mm. Draw its projections and find its distance from VP. | ME |
| 125. | A point S is in the first quadrant and equidistance of 50 mm from all the three principle planes Draw the projection of the point. Draw all the three views of the point. | ME |
| 126. | Draw the projection of point G which is in first quadrant such that it is equidistance from HP & VP. The point is 25mm from RPP. Determine its distances from HP & VP. | ME |
| 127. | A point R is 25mm above HP & 20mm in front of VP. Another point S is on HP & 30mm behind VP. The distance between their projectors measured parallel to the line of intersection of VP & HP is 50mm. Find the distance between the top views of points R & S. | ME |
| 128. | A point M is on HP & 30 mm in front of VP. Another point N is 20mm below HP and 20mm in front of VP. The distance between their projectors measured parallel to XY line is 50mm. Find the distance between front views of the points M & N. | ME |
| 129. | A point P is on HP and 30 mm infront of VP. Another point Q is on VP and 40mm above HP. The distance between their projectors parallel to XY line is 50mm. Find the distance between their front and top views of the points p and Q. | ME |
| 130. | A point P is 30mm in front of VP, 40mm above HP and 50mm from RPP. Draw its projections. | ME |
| 131. | The point P is 45mm above HP, 60 mm behind VP and 30mm from RPP. Draw the three principles view of the point. Also state the quadrant in which it lies. | ME |
| 132. | Draw all the three view of a point P lying 60mm below HP, 70mm infront of VP and 40 mm from the RPP. Also state the quadrant in which it lies. | ME |
| 133. | A point is 30mm in front of VP, 20mm above HP & 25 mm in front/behind/ from LPP. Draw its projections and name the side view. | ME |
| 134. | A point is 40mm behind VP, 15mm above HP and 25 mm in front/behind/ from LPP. Draw the projection and name the side view. | ME |
| 135. | A point is 30mm behind VP, 30mm above HP and 25 mm in front/behind/ from LPP. Draw the projection and name the side view. | ME |
| 136. | A point is lying on HP, 20mm behind VP and 25mm behind/in front/from RPP. Draw the projection and name the side view. | ME |
| 137. | A point is 35mm below HP, 20mm behind VP and 25mm behind/in front/ from RPP. Draw its projections and name the side view. | ME |
| 138. | A point is lying on VP, 20mm below HP and 30mm behind/in front/from LPP. Draw the projection and name the side view. | ME |
| 139. | A point A is 20mm above HP & 25 mm infront of VP. Another point B is 25mm behind VP and 40mm below HP. Draw their projections when the distance between their projectors parallel to XY line is zero mm. add the right side view only to point B. | ME |
| 140. | Draw the projections of the following points on the same XY line, keeping convenient distance between each projector. Name the Quadrants in which they lie. | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics Student Centric Methods Internships, Field work & Visits

IQAC

| | P – 20 mm above HP & 35mm infront of VP. | |
|------|--|----|
| | Q – 30mm above HP & 40mm behind VP. | |
| | R – 40mm above HP & on VP. | |
| | S – 35mm below HP & 30mm infront of VP. | |
| 141. | Draw the projections of the following points on the same XY line, keeping convenient | ME |
| | distance between each projector. Name the Quadrants in which they lie. | |
| | M - 30mm below HP & 25mm behind VP | |
| | N - 35mm below HP & 30mm in front of VP | |
| | P – On HP & 30mm infront of VP | |
| | Q – On HP & 35mm behind VP. | |
| 142. | State the Quadrant in which the following points are located. Assume any distances. | ME |
| | A - Front view below XY & Top view above XY line | |
| | B - Front and top views are below XY line. | |
| | C - Front and top views are above XY line. | |
| | D - Front view above XY & Top view below XY line. | |
| 143. | A point 30mm above XY line is the front view of three points P, Q and R. The top view | ME |
| | of R is 40 mm behind VP, the top view of Q is on XY line and top view of point P is | |
| | 45mm in front of VP. Draw the projections of the points & state the Quadrants in which | |
| | the points are situated. | |
| 144. | A point M is 30mm in front of VP and 20mm above HP. Another point N is 15 mm | ME |
| | behind VP & 25mm below HP. The horizontal distance between the points parallel to XY | |
| | line is 50mm. Draw the projection of the points M& N and join their front and top views. | |
| | Draw the right side view for the point N only. | |
| 145. | The common point 40mm below XY line represents not only the front view of three | ME |
| | points A, B and C but also the top view of point C. The top view of point B is lies on XY | |
| | line and top view of point A is lies 50mm above it. Draw the projection of the points and | |
| | add the right side view to the point A only. Also state in which quadrants the points lie. | |
| 146. | A point A is on HP and 35mm in front of VP. Another point B is on VP and below HP. | ME |
| | The line joining their front views makes an angle of 30° to XY line while the line joining | |
| | their top views makes an angle 45° with XY line. Find the distance of the point B from | |
| | HP. | |
| 147. | Two points P and Q are on HP. The point P is 30mm behind VP, while Q is 50mm in | ME |
| | front of VP. The line joining their top views make an angle of 40° with XY. Find the | |
| | horizontal distance between their projectors parallel to XY line. | |
| 148. | A point A is 40 mm in front of VP and is situated in the fourth quadrant. Its shortest | ME |
| | distance from the intersection HP & VP is 45mm. Draw its projections. Also find the | |
| | distance from HP. | |
| 149. | A point A is 20mm above HP and in the first quadrant its shortest distance from the XY | ME |
| | line is 40mm. draw the projections. Determine the distance from VP. | |
| 150. | Draw the projections of the following points on the same XY line, keeping convenient | ME |
| | distance between each projector. Name the Quadrants in which they lie. | |
| | P - 10mm above HP & 15mm in front of VP. | |
| | Q - 15mm above HP & 25mm behind VP. | |
| | R – 25mm below HP & in VP. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | S – 40mm above HP & in VP. | |
|------|--|----|
| 151. | A point P is 25 mm above HP and 20mm in front of VP. Another point Q is on HP and | ME |
| | 30 mm behind VP. The distance between their projectors measured parallel to the line of | |
| | intersection of VP and HP is 50mm. Find the distance between the top views of points P | |
| | and Q. | |
| 152. | A point A is on HP & 30mm infront of VP. Another point B is 20 mm below HP and | ME |
| | 20mm In front of VP. The distance between their projectors measured parallel to XY line | |
| | is 50mm. Find the distance between the front views of the points A & B. | |
| 153. | A point P is on HP and 30mm infront of VP. Another Point Q is on VP & 40 mm above | ME |
| | HP. The distance between their projectors parallel to XY line is 50mm. Find the distance | |
| | between their front and top view of the points P & Q. | |
| 154. | Draw the projections of a point A lying 30mm above HP and in first quadrant, if its | ME |
| | shortest distance form the line of intersection of HP and VP is 50mm. Also find the | |
| | distance of the point from VP. | |
| 155. | Draw the projections of the following points on the same reference XY line & state the | ME |
| | Quadrants in which they lie | |
| | E – 35mm above HP & on VP. | |
| | F – 30mm below HP & on VP. | |
| | G – On HP & 25mm behind VP. | |
| | H – On HP & 30mm infront of VP. | |
| 156. | A point 20mm below the reference XY line is the top view of three points P,Q & R. P is | ME |
| | 20 mm below HP, Q is 35mm above HP and R is on HP. Draw the projections of the | |
| | three points and state their position & quadrants in which they situated. | |
| 157. | A point is 30 mm in front of VP, 20mm above HP & 25mm infront/behind/ from LPP. | ME |
| | Draw its projections and name the side view. | |
| 158. | A point is 40mm behind VP, 20mm above HP and 30 mm in front/behind/from LPP. | ME |
| | Draw its projections and name the side view. | |
| 159. | A point is 30mm behind VP, 30mm above HP and 25mm infront/behind/from RPP. Draw | ME |
| | its projections and name the side view. | |
| 160. | A point is lying on VP, 10mm below HP & 30mm behind/in front/from LPP. Draw its | ME |
| | projections and name the side view. | |
| 161. | A point is lying on HP, 20mm behind VP & 35mm behind/in front/from RPP. Draw its | ME |
| | projections and name the side view. | |
| 162. | A point is 35mm below HP, 15mm behind VP & 25mm behind/in front/from RPP. Draw | ME |
| | the projection and name the side view. | |
| 163. | A point P is 15 mm above HP & 25mm in front of VP. Another point Q is 25mm behind | ME |
| | VP and 40mm below HP. Draw their projections when the distance between their | |
| | projectors parallel to XY line is zero mm. Add the right side view only to point Q. | |
| 164. | Draw the projections of the following points on the same XY line, keeping convenient | ME |
| | distance between each projector. Also state the quadrants in which they lie. | |
| | P - 25mm above HP & 35mm in front of VP | |
| | Q - 30mm above HP & 40mm in front of VP | |
| | R - 40mm above HP & on VP | |
| | S - 35mm below HP & 30mm in front of VP. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Internships, Field
work & Visits

IQAC

| 165. | Draw the projections of the following points on the same XY line, keeping convenient | ME |
|------|---|----|
| | distance between each projector. Also state the Quadrants in which they lie. | |
| | A - 30mm below HP & 25mm behind VP. | |
| | B - 35mm below HP & 30mm in front of VP. | |
| | C - On HP & 30mm in front of VP. | |
| | D - On HP & 35mm behind of VP. | |
| 166. | A line AB 80mm long has its end A 20 mm above the HP and 30 mm infront of VP. It is | ME |
| | inclined at 30 to HP and 45 to VP. Draw the projection of the line and find apparent | |
| | lengths and apparent inclinations. | |
| 167. | A line AB 80mm long is inclined to HP at 30 and inclined to VP at 45. The end A | ME |
| | touches both HP & VP. Draw front and top views of line and determine their lengths. | |
| | Also measure the perpendicular distance of end B from both HP and VP. | |
| 168. | A line AB has its end A 20 mm above the HP and 30 mm infront of the VP. The other | ME |
| | end B is 60 mm above the HP and 45mm infront of VP. The distance between end | |
| | projectors is 70 mm. Draw its projections. Determine the true length and apparent | |
| | inclinations. | |
| 169. | A line AB has its end A 20 mm above the HP and 15 mm infront of the VP. The other | ME |
| | end B is 60 mm above the HP & 45mm infront of VP. The distance between end | |
| | projectors is 70 mm. Draw its projections. Determine the apparent lengths and true | |
| | inclinations. | |
| 170. | The top view pq of a straight line is 70 mm and makes an angle of 60 with XY line. The | ME |
| | end Q is 10 mm infront of VP and 30 mm above the HP. The difference between the | |
| | distances of P and Q above the HP is 45 mm. Draw the projections. Determine its true | |
| | length and true inclinations with HP and VP. | |
| 171. | A line PQ 85 mm long has its end P 10 mm above the HP and 15 mm infront of the VP. | ME |
| | The top view and front view of line PQ are 75 mm and 80mm respectively. Draw its | |
| | projections. Also determine the true and apparent inclinations of the line. | |
| 172. | A line has its end A 10 mm above Hp and 15 mm infront of VP. The end B is 55 mm | ME |
| | above HP and line is inclined at 30 to HP and 35 to VP. The distance between the end | |
| | projectors is 50 mm. Draw the projections of the line. Determine the true length of the | |
| | line and its inclinations with VP. | |
| 173. | The top view of a line 75 mm long measure 50 mm. The end P is 30 mm infront of VP | ME |
| | and 15 mm above HP. The End Q is 15 mm infront of VP and above HP. Draw the | |
| | Projections of the line and find its true inclinations with HP and VP. | |
| 174. | A line AB 60 mm long has one of its extremities 20 mm infront of VP and 15 mm above | ME |
| | HP. The line is inclined at 25 to HP and 40 to VP. Draw its top and front views. | |
| 175. | A line AB measuring 70 mm has its end A 15mm infront of VP and 20 mm above HP | ME |
| | and the other end B is 60mm infront of VP and 50 mm above HP. Draw the projections | |
| | of the line and find the inclinations of the line with both the reference planes of | |
| | projections. | |
| 176. | The front view of a 90 mm long line which is inclined at 45 to the XY line, measures 65 | ME |
| | mm. End A is 15 mm above the XY line and is in VP. Draw the projections of the line | |
| | and find its inclinations with HP and VP. | |
| 177. | The distance between the end projectors through the end points of a line AB is 60 mm. | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | The end A is 10 mm above HP and 15 mm in front of VP. The end B is 35 mm infront of | |
|-----|--|----|
| | VP. The line AB appears 70 mm long in the front view. Complete the projections. Find | |
| | the true length of the line and its inclinations with HP and VP. | |
| 178 | The distance between the end projectors through the end point of a line AB is 40mm. The end A is 20mm above HP and 15mm in front of VP. The end B is 45mm infront of VP. The line AB appears 50mm long in the front view. Complete the projections. Find the | ME |
| | true length of the line and its inclination with HP and VP. | |
| 179 | The point B of a line AB is on the horizontal plane, the top view of the line makes an angle of 30° with XY line, being 80mm. The point A is on the vertical plane and 50mm above the horizontal plane. Draw the top and front views of the line and obtain the true length of the line. Also find the inclinations of the line with the two planes. | ME |
| 180 | Draw the projections of a straight line AB, 100mm long, inclined at 45° to HP and 30° to VP. The end A is in HP and the end B is in VP. Find the shortest distance between the straight line AB and the line of intersection of planes of projection. | ME |
| 181 | A line AB 100mm long is inclined to HP at 45° and inclined to VP at 30°. End A touches VP & HP. Draw front and top views of line and determine their lengths. Also determine the perpendicular distance of end B from both HP and VP. | ME |
| 182 | The top view of a 75 mm long line AB measures 65 mm, while the front view is 50mm. The one end A is in the H.P and 12mm infront of the VP. Draw the projections of AB and determine its inclinations with the HP and the VP. | ME |
| 183 | A line AB, 65mm long, has its end A 20mm above the HP and 25mm in front of the VP. The end B is 40 mm above the HP and 65mm in front of VP. Draw the projections of AB and show its inclination with the HP and the VP. | ME |
| 184 | A Straight line PQ, 65mm long, is inclined at 45° to HP and 30° to VP. The point P is 70 mm from both the reference planes and the point Q is towards the reference planes. Draw the projections. | ME |
| 185 | | ME |
| 186 | | ME |
| 187 | A line AB 100mm long measures 80mm in front view and 70mm in top view the midpoint M of the line is 40 mm from both HP and VP. Draw its projection. Find the inclinations. | ME |
| 188 | A line has its end A 15 mm above HP and 10mm infront of VP. The end B is 55mm above HP and the line is inclined at 30° to HP. The distance between the end projectors is 50mm. Draw the projections of line and determine the true length of the line and its inclination with VP. | ME |
| 189 | A line MN 90mm long has a point P on it which divides the line in the ratio 2:1, i.e. MP: PN = 2:1. This point P is 50mm above HP and 60 mm infront of VP. The line is inclined at 35° to HP and 40 to VP. Draw the projection of line. Find the distance between end projector and the position of the ends of line with HP and VP | ME |
| 190 | A straight line PQ inclined at 40° to VP has pq = 60mmand p'q'=50mm. The end P is | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Internships, Field
work & Visits

IQAC

| | both in HP and VP, and 40 mm to the right of left profile plane. | |
|------|--|-------|
| | a) Draw the projections of the straight line PQ | |
| | b) Draw the true length and true inclination with HP. | |
| | c) Draw the profile view of the straight line. | |
| | d) Find the position of the end Q with HP and VP. | |
| | , 1 | |
| 191. | A line has one end 30mm in front of VP and 15mm above HP and the other end is 15mm | ME |
| | in front of VP and is above HP. Length of the line is 60mm. Top view of the line is | |
| | 40mm long. Draw the two views of the line and obtain the inclination of the line with HP | |
| 102 | and VP. The top view of the line PQ 75mm long measures 50mm. The end P is 30mm in front of | ME |
| 192. | VP and 15mm above HP. The ends Q is 15mm in front of VP and above HP. Draw the | IVIE |
| | projections of the line and find its true inclinations with HP and VP. Find length of front | |
| | view and distance between the end projectors. | |
| 193. | 1 0 | ME |
| 175. | the VP. Its midpoint M is 25mm above the HP and 40mm in front of the VP. Draw the | IVIL |
| | projections of the line and determine the inclination of the line with HP and VP. | |
| 194. | The front view of the line PQ 80mm long measures 50mm and it is inclined to XY at 50. | ME |
| 171. | One end of the line P is 20mm above HP and 25m in front of VP. Draw the front and top | 1,112 |
| | view of the line and find the inclinations of the line with HP and VP. | |
| 195. | Draw the projections of a line AB 100mm long inclined at 45 to VP and 30 to HP. One | ME |
| | end of the line is 20 mm above the HP and in the VP. Also determine the apparent length | |
| | and inclinations. | |
| 196. | Draw the projections of line PQ and find the true length and inclinations when the line is | ME |
| | inclined at 30 to the HP and 45 to the VP. The line is having one of its end 15mm above | |
| | HP and 20mm in front of VP. The distance between the end projectors on the XY line is | |
| | 60mm. | |
| 197. | The top view ab of a straight line AB is 60mm long and makes an angle 30 with the XY | ME |
| | line. The end A is in VP and above 30mm HP. The end B is 65mm above HP. Draw the | |
| | projections of the line AB and determine i) length of the front view. ii) Its true length and | |
| | true inclinations with the reference plane. | |
| 198. | A line AB 65mm long has its end A 25mm above HP and 30mm in front of VP. The | ME |
| | other end is 45mm above HP and 50mm in front of VP. Draw the projections and | |
| 100 | determine its inclinations. |) (T) |
| 199. | One end of a line is 30mm in front of VP and 30mm above HP. The line is inclined at 40 | ME |
| | to HP and its top view measuring 60mm, is inclined at 50 to XY. Draw the projections of | |
| 200 | the line and determine true length and inclination with VP. | ME |
| 200. | The top view of the line AB 80mm long, measures 65mm. The midpoint of the line is 30 | ME |
| | mm in front of VP and 40mm above HP. The point A is in the VP. Draw the projections and find its inclinations. | |
| 201 | A straight line PQ is inclined at 45 to HP and 30 to VP. The point P is in HP and the | ME |
| 201. | point Q is in VP. The length of the straight line is 65mm. Draw the projections of the | ME |
| | straight line AB. | |
| 202. | Draw the projections of a line AB 90mm long and find its true and apparent inclinations | ME |
| 202. | Nidescapi 501 226 Tag. Hukkori Diet. Balagayi Karnataka India | 1711 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | with HP and VP, when its end A is on HP and 20mm in front of VP. Its midpoint M is | |
|------|---|------|
| 202 | 20mm above the HP and 40 mm in front of the VP. | |
| 203. | A line PQ is inclined to both HP and VP by 30° and 45 respectively. One of its ends P is | ME |
| | at a distance of 10mm from HP and 15mm from VP. The distance between the end | |
| | projectors is 45mm. Draw the top and front views of the line. Determine the true length | |
| 20.4 | of the line and the distance of the end Q from VP and HP. |) (E |
| 204. | Two lines AB and AC make an angle of 120 between them in their front view and top | ME |
| | view. AB is parallel to both the HP and the VP. Determine the real angle between AB | |
| 205 | and AC. | ME |
| 205. | The elevation of a line AB 90mm long is inclined at 30° to HP and measures 70mm. The | ME |
| | end A is 20mm above HP and is in VP. Draw the projections of the line and find its inclination with VP. | |
| 206. | A line PQ measures 80mm in length. The point P is above HP and in front of VP by | ME |
| 200. | 10mm and 15mm respectively. The distance between the end projectors is 50mm. The | NIE |
| | line is inclined to HP by 30°. Draw the projections of the line and specify its true | |
| | inclination with VP. | |
| 207. | The top view of a line PQ 75mm long measures 50mm and the front view measures | ME |
| 207. | 60mm. The end P is 30mm above HP and 15 mm in front of VP. Draw the projections of | IVIL |
| | the line and find its true inclinations with HP and VP. Find distance between the end | |
| | projectors. | |
| 208. | A straight line AB measuring 80mm long has the end A in the HP and 25mm in front of | ME |
| 200. | VP. Its midpoint M is 25 mm above HP and 40mm in front of VP. Draw the views of the | IVIL |
| | line and determine the inclination of the line with HP and VP and also find distance | |
| | between end projectors. | |
| 209. | The end A of a line AB is in HP and 25mm in front of VP. The end B is in VP and 50mm | ME |
| | above HP. The distance between the end projectors when measured parallel to the line of | 1.12 |
| | intersection of HP & VP is 65mm. Draw the projections of the line AB and determine its | |
| | true length and true inclinations with HP & VP. | |
| 210. | A line has its end A, 15mm from HP and 10mm from VP. The end B is 55 mm from HP | ME |
| | and the line is inclined at 30□ to HP. The distance between the end projectors is 50 mm. | |
| | Draw the projections of the line. Determine the true length of the line and its inclination | |
| | with VP. | |
| 211. | The end A of a line AB is in HP and 25mm in front of VP. The end B is 10mm in front of | ME |
| | VP and 50mm above HP. The distance between the end projectors when measured | |
| | parallel to the line of intersection of HP & VP is 80 mm. Draw the projections of the line | |
| | AB and determine its true length and true inclinations with HP & VP. | |
| 212. | A straight line PQ 80mm long appears to a length of 50mm and inclined at 30 to xy line | ME |
| | in its side view. Draw its projection when its end point P is 15mm above HP and 60mm | |
| | in front of VP. Point Q is nearer to VP than P. | |
| 213. | The top view of a line AB, 80mm long measures 65mm and the length of the front view | ME |
| | is 50mm. The end A is on HP and 15mm in front of VP. Draw the projectors. | |
| 214. | Draw the projections of a line PQ and find its apparent lengths, true length and true | ME |
| | inclination with HP when the line PQ has its end P 25mm above HP and 20mm in front | |
| | of VP. The distance between the end projectors of the line when measured parallel to the | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | line of intersection of the HP & VP is 60mm. The end Q is 50mm above the HP and the | |
|------|--|----|
| | line is inclined at 30 to the VP. | |
| 215. | Find the true length and true inclination of a line AB with HP having one of its ends 20mm in front of VP and 30 mm above the HP. The line is inclined at 40° to VP and the left side view of the line is 60 mm long and inclined at 60° to X1Y1 line. Draw all the three views of the line. | ME |
| 216. | An equilateral triangular lamina of 25mm side lies with one of its edges on HP such that the surface of the lamina is inclined to HP at 60°. The edge on which it rests is inclined to VP at 60°. Draw the projections. | ME |
| 217. | An equilateral triangular lamina of 25mm side lies on one of its sides on HP. The lamina makes 45° with HP and one of its medians is inclined at 40° to VP. Draw its projections. | ME |
| 218. | A triangular lamina of 25mm sides rests on one of its corners on VP such that median passing through the corner on which it rests is inclined to HP at 30° and lamina makes an angle 45deg with VP.draw its projections. | ME |
| 219. | A triangular plane figure of sides 25mm is resting on HP with one of its corners, such that the surface of the lamina makes an angle of 60° with HP. If the side opposite to the corner on which the lamina rests makes an angle of 30° with VP, draw the top and front views in this position. | ME |
| 220. | A triangular plane lamina of sides 25mm is resting on HP with one of its corners touching it, such that the side opposite to the corner on which it rests is 15mm above HP and makes an angle of 30° with VP. Draw the top and front views in this position. Also determine the inclination of the lamina to the reference plane. | ME |
| 221. | A 30°-60° setsquare of 60mm longest side is so kept such that the longest side is in HP, making an angle of 30° with VP. The setsquare itself is inclined at 45° to HP. Draw the projections of the setsquare. | ME |
| 222. | An isosceles triangular plate of negligible thickness has base 25mm long and altitude 35mm. it is so placed on HP such that in the front view it is seen as an equilateral triangle of 25mm sides with the side that is parallel to VP is inclined at 45° to HP. Draw its top and front views. Also determine the inclination of the plate with the reference plane. | ME |
| 223. | A square lamina of 40mm side rests on one of its sides on HP. The lamina makes 30° to HP and the side on which it rests makes 45° to VP. Draw its projections. | ME |
| 224. | A square plate of 30mm sides rests on HP such that one of the diagonals is inclined at 30° to HP and 45° to VP. Draw its projections. | ME |
| 225. | A square lamina ABCD of 40mm side rests on corner C such that the diagonal AC appears to be 45° to VP. The two sides BC and CD containing the corner C make equal inclinations with HP. The surface of the lamina makes 30° with HP. Draw its top and front views. | ME |
| 226. | The top views of a square lamina of side 30mm is a rectangle of sides 30mm X 20mm with the longer side of the rectangle being parallel to both HP & VP. Draw the top and front views of the square lamina. What is the inclination of the surface of the lamina with HP and VP? | ME |
| 227. | A rectangular lamina of sides 20mm X 30mm rests on HP on one of its longer edges. The lamina is tilted about the edge on which it rests till its plane surface is inclined to HP at 45°. The edge on which it rests is inclined at 30° to VP. Draw the projections of the | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | lamina. | |
|------|---|----|
| 228. | A rectangular lamina of 35mm X 20mm rests on HP on one of its shorter edges. The lamina is rotated about the edge on which it rests till it appears as a square in the top view. The edge on which the lamina rests being parallel to both HP & VP. Draw its projections and find its inclinations to HP and VP. | ME |
| 229. | A rectangular lamina of 35mm X 20mm rests on HP on one its shorter edges. The lamina is rotated about the edge on which it rests till it appears as a square in the top view. The edge on which the lamina rests is inclined 30° to VP. Draw its projections and find its inclination to HP. | ME |
| 230. | A rectangular lamina of 20mm X 25mm has as edge in HP and adjoining edge in VP, is tilted such that the front view appears as a rectangular of 20mm X 15mm. the edge, which is of VP, is 30mm from the right profile plane. (a) Draw the top view, front view and the left profile view in this position. (b) Find its inclinations with the corresponding principal planes. | ME |
| 231. | The front view of a rectangular lamina of sides 30mm X 20mm sides. Draw the projections and determine the inclinations of the surface of the lamina with HP & VP. | ME |
| 232. | A mirror 30mm X 40mm is inclined to the wall such that its front view is a square of 30mm side. The longer side of the mirror appears perpendicular to both HP and VP. Find the inclination of the mirror with the wall. | ME |
| 233. | A rectangular plate of negligible thickness of size 35mm X 20mm has one of its shorter edges in VP with that edge inclined at 40° to HP. Draw the top view if its front view is square of side 20mm. | ME |
| 234. | A pentagonal lamina of edges 25mm is resting on HP with one of its sides such that the surface makes an angle of 60° with HP. The edge on which it rests is inclined at 45° to VP. Draw its projections. | ME |
| 235. | A pentagonal lamina of edges 25mm is resting on HP with one of its corners such that the plane surface makes an angle of 60°e with HP. The two of the edges containing the corner on which the lamina rests makes equal inclinations with HP. When the edge opposite this corner makes an angle of 45° with VP and nearer to the observer, draw the top and front views of the plane lamina in this position. | ME |
| 236. | A pentagonal lamina of edges 25mm is resting on HP with one of its corners such that the edge opposite to this corner is s20mm above HP & makes an angle of 45° with VP. Draw the top and front views of the plane lamina in this position. Determine the inclination of the lamina | ME |
| 237. | A pentagonal lamina of sides 25mm is resting on one of its edges on HP with the corner opposite to the edge touching VP. This edge is parallel to VP and the corner, which touches VP, is at a height of 15mm above HP. Draw the projections of the lamina and determines the inclinations of the lamina with HP and VP and the distance at which the parallel edge lies from VP. | ME |
| 238. | A pentagonal lamina having edges 25mm is placed on one of its corners on HP such that the perpendicular bisector of the edge passing through the corner on which the lamina rests is inclined at 30 to HP and 45 VP. Draw the top and front views of the lamina. | ME |
| 239. | A pentagonal lamina of sides 25mm is having a side both on HP and VP. The corner opposite to the side on which it rests is 15mm above HP. Draw the top front views of the | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | lamina. | |
|------|---|----|
| 240. | A pentagonal lamina of sides 25mm is having a side both on HP and VP. The surface of the lamina is inclined at an angle of 60 with HP. Draw the top and front views of the lamina. | ME |
| 241. | A regular pentagonal lamina of 25mm side is resting on one of its corners on HP while the side opposite to this corner touches VP. If the lamina makes an angle of 60 with HP, draw the top and front views of the lamina. | ME |
| 242. | A pentagonal lamina having edges 25mm is placed on one of its corners on HP such that the surface makes an angle 30 with HP and perpendicular bisector of the edge passing through the corner on which the lamina rests appears to be inclined at 30 to VP. Draw the top and front views of the lamina. | ME |
| 243. | A regular pentagonal lamina of 25mm side is resting on one of its sides on HP while the corner opposite to this side touches VP. If the lamina makes an angle of 60 with HP, draw the projections of the lamina. | ME |
| 244. | A pentagonal lamina of edges 25mm is resting on VP with one of its sides such that the surface makes an angle of 60 with VP. The edge on which it is inclined at 45 to HP. Draw its projections. | ME |
| 245. | A pentagonal lamina having edges 25mm is placed on one of its corners on VP such that the surface makes an angle 30 with VP and perpendicular bisector of the edge passing through the corner on which the lamina rests appears to be inclined at 30 to HP. Draw the top and front views of the lamina. | ME |
| 246. | A pentagonal lamina having edges 25mm is placed on one of its corners on VP such that the surface makes an angle 30 with VP and perpendicular bisector of the edge passing through the corner on which the lamina rests is inclined at 45 to HP. Draw the top and front views of the lamina. | ME |
| 247. | A hexagonal lamina of 30mm sides rests on HP with one of its corners touching VP and surface inclined at 45 to it. One of its edges is inclined to HP at 30. Draw the front and top views of the lamina in its final position. | ME |
| 248. | Draw the top and front views of a hexagonal lamina of 30mm sides having two of its edges parallel to both vertical and horizontal planes and one at its edges is 10mm from each of the planes of projection. The surface of the lamina is inclined at an angle of 60 to the HP. | ME |
| 249. | A regular hexagonal lamina of sides 30mm is lying in such way that one of its sides touches both the reference planes. If the lamina makes 60 with HP, draw the projection of the lamina. | ME |
| 250. | A regular hexagonal lamina of side 30mm is lying in such a way that one of its sides touches both the reference planes. If the side opposite to the side on which it rests is 45mm above HP, draw the projections of the lamina. | ME |
| 251. | A regular hexagonal lamina of sides 25mm is laying in such a way that one of its sides on HP while the side opposite to the side on which it rests is on VP. If the lamina makes 60 to HP, draw the projections of the lamina. | ME |
| 252. | A regular hexagonal lamina of side 25mm is lying in such a way that one of its corners on HP while the corner opposite to the corner on which it rests is on VP. If the lamina makes 60 to HP, draw the projections of the lamina. | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| 253. | A hexagonal lamina of side 30mm is resting on HP with one of its corners in VP and its | ME |
|------|--|-------|
| | surface inclined at an angle of 30 with VP. The diagonal passing through that corner | 1.12 |
| | which is in VP is inclined at 45 to HP. Draw the projections of the lamina. | |
| 254. | A hexagonal lamina of side 30mm is resting onHP with one of its corners in VP and its | ME |
| 231. | surface inclined at an angle of 30 with VP. The diagonal passing through that corner | IVIL |
| | which is in VP appears to be inclined at 40 to HP. Draw the projections of the lamina. | |
| 255. | A hexagonal lamina of side 25mm rests on one of its sides on HP. The lamina makes 45 | ME |
| 233. | to HP and the side on which it rests makes 30 to VP. Draw its projections. | IVIL |
| 256 | | ME |
| 256. | A hexagonal lamina of side 25mm rests on one of its corners on HP. The lamina makes | NIE |
| | 45 to HP and the diagonal passing through the corner on which it rest is inclined at 30 to | |
| 257 | VP. Draw its projections. |) (T) |
| 257. | A hexagonal lamina of side 25mm rests on one of its corners on HP. The lamina makes | ME |
| | 45 to HP and the diagonal passing through the corner on which it rest appears to be | |
| | inclined at 30 to VP. Draw its projections. | |
| 258. | A hexagonal lamina of side 25mm rests on one of its sides on VP. The lamina makes 45 | ME |
| | to VP and the side on which it rests makes 45 to HP. Draw its projections. | |
| 259. | A hexagonal lamina of side 25mm rests on one of its sides on VP. The side opposite to | ME |
| | the side on which it rests is 30mm in front of VP & the side on which it rests makes 45 to | |
| | HP. Draw its projections. Also determine the inclination of the lamina with the reference | |
| | plane. | |
| 260. | A hexagonal lamina of side 25mm rests on one of its corners on HP. The corner opposite | ME |
| | to the corner on which it rests is 35mm above HP and the diagonal passing through the | |
| | corner on which it rests is inclined at 30 to VP. Draw its projections. Find the inclination | |
| | of the surface with HP. | |
| 261. | Draw the projection of a circular plate of negligible thickness of 50mm diameter resting | ME |
| | on HP on a point A on the circumference, with its plane incline at 45 to HP and the top | |
| | view of the diameter passing through the resting point makes 60 with VP. | |
| | | |
| 262. | A circular lamina of 50mm diameter is standing with one of its points on the rim on HP | ME |
| | and lamina inclined at 45 to HP. The diameter at right angles to the diameter which is | |
| | passing through the point on which the lamina rests is parallel to VP. Draw its | |
| | projections. | |
| 263. | A circular lamina of 50mm diameter rests on HP such that one its diameters is inclined at | ME |
| 200. | 30 to VP and 45 to HP. Draw its top and front views in this position. | 1,122 |
| 264. | A circular lamina inclined to the VP appears in the front view as an ellipse of major axis | ME |
| 2011 | 30mm and minor axis 15mm. the major axis is parallel to both HP and VP. One end of | 1,12 |
| | the minor axis is in both the HP and VP. Draw the projection of the lamina and determine | |
| | the inclination of the lamina with the VP. | |
| 265. | A circular lamina of 30mm diameter rest on VP such that one of its diameters is inclined | ME |
| 203. | at 30 to VP and HP. Draw its top and front views in this position. | 1711 |
| 266. | A square prism 35mm sides of base and 65mm axis length rests on HP on one of its | ME |
| 200. | · · · | 17117 |
| | edges of the base which is inclined to VP at 30. Draw the projections of the prism when | |
| 267 | the axis is inclined to HP at 45. | ME |
| 267. | A square prism 35mm sides of base and 60mm axis length rests on HP on one of its | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the prism when the axis of the | |
|------|---|----|
| | prism is inclined to HP at 40 and appears to be inclined to VP at 45. | |
| 268. | A square prism 35mm sides of base and 60mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the prism when the axis of the prism is inclined to HP at 40 and to VP at 30. | ME |
| 269. | A square prism 35mm sides of base and 65mm axis length rests on HP on one of its edges of the base. Draw the projections of the prism when the axis is inclined to HP at 45 and VP at 30. | ME |
| 270. | A pentagonal prism 25mm sides of the base and 60mm axis length rests on HP on one of its edges of the base which is inclined to VP at 30. Draw the projections of the prisms when the axis is inclined to HP at 40. | ME |
| 271. | A pentagonal prism 25mm sides of the base and 60mm axis length rests on HP on one of its edges of the base. Draw the projections of the prisms when the axis is inclined to HP at 40 and VP at 30 | ME |
| 272. | A pentagonal prism 25mm sides of the base and 50mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the prism when the axis of the prism is inclined to HP at 40 and appears to be inclined to VP at 45. | ME |
| 273. | A pentagonal prism 25mm sides of the base and 50mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the prism when the axis of the prism is inclined to HP at 40 and to VP at 30 | ME |
| 274. | A hexagonal prism 25mm sides of base and 50mm axis length rests on HP on one of its edges. Draw the projections of the prism when the axis is inclined at 45appears to be inclined to VP at 40. | ME |
| 275. | A hexagonal prism 25mm sides of base and 50mm axis length rests on HP on one of its edges of the base. Draw the projections of the prism when the axis is inclined to HP at 45 and VP at 30. | ME |
| 276. | A hexagonal prism 25mm sides of base and 50mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests makes equal inclinations with HP. Draw the projections of the prism when the axis of the prism is inclined to HP at 40 and appears to be inclined to VP at 45. | ME |
| 277. | A hexagonal prism 25mm sides of base and 50mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests makes equal inclinations with HP. Draw the projections of the prism when the axis of the prism is inclined to HP at 40 and to VP at 30 | ME |
| 278. | A square prism 35mm sides of base and 60mm axis length is suspended freely from a corner of its base. Draw the projections of the prism when the axis appears to be inclined to VP at 45. | ME |
| 279. | A pentagonal prism 25mm sides of the base and 50mm axis length is suspended freely from a corner of its base. Draw the projections of the prism when the axis appears to be inclined to VP at 45. | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| 280. | A hexagonal prism 25mm sides of base and 50mm axis length is suspended freely from a corner of its base. Draw the projections of the prism when the axis appears to be inclined to VP at 45. | ME |
|------|---|----|
| 281. | A square pyramid 35mm sides of base and 65mm axis length rests on HP on one of its edges of the base which is inclined to VP at 30. Draw the projections of the pyramid when the axis is inclined to HP at 45. | ME |
| 282. | A square pyramid 35mm sides of base and 65mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests makes equal inclinations with HP. Draw the projections of the pyramid when the axis of the pyramid is inclined to HP at 40 and appears to be inclined to VP at 45. | ME |
| 283. | | ME |
| 284. | A square pyramid 35mm sides of base and 60mm axis length rests on HP on one of its edges of the base. Draw the projections of the pyramid when the axis is inclined to HP at 45 and VP at 30. | ME |
| 285. | A pentagonal pyramid 25mm sides of base and 60mm axis length rests on HP on one of its edges of the base which is inclined to VP at 30. Draw the projections of pyramid when the axis is inclined to HP at 40. | ME |
| 286. | A pentagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its edges of the base.Draw the projections of pyramid when the axis is inclined to HP at 45 and VP at 30. | ME |
| 287. | A pentagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the pyramid when the axis of the pyramid is inclined to HP at 40 and appears to be inclined to VP at 45. | ME |
| 288. | A pentagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the pyramid when the axis of the pyramid is inclined to HP at 40 and to VP at 30. | ME |
| 289. | A hexagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its edges of the base which is inclined to VP at 30°. Draw the projections of the pyramid when the axis is inclined to HP at 45 | ME |
| 290. | A hexagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its edges of the base. Draw the projections of the pyramid when the axis is inclined to HP at 45 and VP at 30. | ME |
| 291. | A hexagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclination with HP. Draw the projections of the pyramid when the axis of the pyramid is inclined to HP at 40 and appears to be inclined to VP at 45 | ME |
| 292. | A hexagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclination with HP. Draw the projections of the pyramid when the axis of | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Internships, Field
work & Visits

IQAC

| | the pyramid is inclined to HP at 40 and to VP at 30 | |
|------|--|----|
| 293. | A square pyramid 35mm sides of base and 60mm axis length is suspended freely from a corner of its base. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45. | ME |
| 294. | A pentagonal pyramid 25mm sides of base and 50mm axis length is suspended freely from a corner of its base. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45. | ME |
| 295. | A hexagonal pyramid 25mm sides of base and 50mm axis length is suspended freely from a corner of its base. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45. | ME |
| 296. | A square pyramid 35mm sides of base and 60mm axis length rests on HP on one of its slant edges. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45. | ME |
| 297. | A square pyramid 35mm sides of base and 60mm axis length rests on HP on one of its slant edges. Draw the projections of the pyramid when the axis is inclined to VP at 45. | ME |
| 298. | A square pyramid 35mm sides of base and 60mm axis length rests on HP on one of its slant triangular faces. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45. | ME |
| 299. | A square pyramid 35mm sides of base and 60mm axis length rests on HP on one of its slant triangular faces. Draw the projections of the pyramid when the axis is inclined to VP at 45. | ME |
| 300. | A pentagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its slant edges. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45. | ME |
| 301. | A pentagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its slant edges. Draw the projections of the pyramid when the axis is inclined to VP at 45. | ME |
| 302. | A pentagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its slant triangular faces. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45. | ME |
| 303. | A pentagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its slant triangular faces. Draw the projections of the pyramid when the axis is inclined to VP at 45. | ME |
| 304. | A hexagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its slant edges. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45. | ME |
| 305. | A hexagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its slant edges. Draw the projections of the pyramid when the axis is inclined to VP at 45. | ME |
| 306. | A hexagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its slant triangular faces. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45. | ME |
| 307. | A hexagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its slant triangular faces. Draw the projections of the pyramid when the axis is inclined to VP at 45. | ME |
| 308. | A cube 40mm sides rests on HP on an edge which is inclined to VP at 30. Draw the | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | projections when lateral square face containing the edge on which it rests makes an angle of 50 to HP. | |
|------|--|----|
| 309. | A tetrahedron of 55mm sides rests on one of its corners such that an edge containing that corner is inclined to HP at 50 and VP at 30. Draw its projections. | ME |
| 310. | A cone of 50mm base diameter and 60mm axis length rests on HP on one of its generators. Draw its projections when the axis is inclined to VP at 30. | ME |
| 311. | A tetrahedron of sides 40mm is resting on one of its sides on HP. This side is parallel to VP and 40mm away from it. It is tilted about resting side such that the base containing this edge is inclined at 30. | ME |
| 312. | A hexahedron of 30mm sides is resting on one of its corners on HP such that one of its solid diagonals is perpendicular to VP. Draw the projections of the solid. | ME |
| 313. | A pentagonal prism of base side 25mm and height 50mm is resting on HP on one of its base corners such that the top most edge is at a distance of 60mm above HP. Draw its projections, when its top view of the axis is inclined at 45 to VP. Also, determine the inclination of the longer edge of the prism to HP which contains the resting corner. | ME |
| 314. | A square pyramid of base sides 30mm and height 60mm is suspended by a thread tied to one of the corners of its base. It is then tilted such that the axis makes an angle of 45 with respect to the VP. Considering the apex of the solid to be nearer to the observer, draw the projections of the solid | ME |
| 315. | A cone of base Φ 40mm axis length 50mm is resting on HP on a point on the circumference of its base such that its apex is at 40mm above the HP and its top view of the axis is inclined at 60 to VP. Draw the top and front views of the solid. Also, determine the inclinations of the axis when the base is nearer to the observer. | ME |
| 316. | A Triangular Prism with one of its rectangular faces parallel to VP and nearer to it is cut as show in Figure. Draw the development of the retained portions of the prism which are shown in dark lines. | ME |
| 317. | A square prism of base side 30mm and axis length 60mm is resting on HP on its base with all the vertical faces being equally inclined to VP. It is cut by an inclined plane 600 to HP and perpendicular to VP and is passing through a point on the axis at a distance 15mm form its top face. Draw the development of the lower portion of the prism. | ME |
| 318. | A square prism of base side 40mm and axis length 65mm is resting on HP on its base with all the vertical faces being equally inclined to VP. It is cut by an inclined plane 600 to HP and perpendicular to VP and is passing through a point on the axis at distance 15mm form the top face. Draw the development of the lower portion of the prism. | ME |
| 319. | A square prism of 30mm side of the base and height 50mm is resting with its base on HP such that one of its vertical faces is inclined at 400 to VP. It is cut as shown in the following front view figure. Draw the development of the lateral surface of the prism. | ME |

200 O 3 PR

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Academics Student Centric Methods Internships, Field work & Visits

IQAC

| 320. | inclined at 30 to VP. It is cut by a section plane perpendicular to VP, inclined to HP at an angle 45 and passes through the midpoint of the axis. Draw the development of the lower | ME |
|------|---|----|
| | lateral surface of the cube. | |
| 321. | A Square prism of base side 35mm & height 55mm rests with its base on HP and two faces equally inclined to VP. Draw the development of lateral surfaces of the retained portions of the cut prism shown by dark lines in the figure. | ME |
| | | |
| 322. | A rectangular prism of base $40\text{mm} \times 25\text{mm}$ and height 65mm rests on HP on its base with the longer base side inclined at 30 to VP. It is cut by a plane inclined at 40 to HP; perpendicular to VP cuts the axis at its mid height. Draw the development of the remaining portion of the prism. | ME |
| 323. | A rectangular prism of base $30\text{mm} \times 20$ mm and height 60mm rests on HP on its base with the longer base side inclined at 40 to VP. It is cut by plane inclined at 45 to HP, perpendicular to VP and bisects the axis. Draw the development lateral surface of prism. | ME |
| 324. | | ME |
| 325. | • | ME |
| 326. | | ME |
| 327. | A pentagonal prism of 30mm side of base and height 50mm lies with its base on HP such that one of the rectangular faces is inclined at 40 to VP. It is cut to the shape of a truncated pyramid with the truncated surface inclined at 30° to the axis so as to pass through a point on it 30mm above the base. Develop the truncated portion of the prism so as to produce a one piece development. | ME |
| 328. | | ME |
| 329. | A pentagonal prism of base sides 20 mm and height 40 mm is resting with its base on HP with a base edge parallel to VP. The prism is cut as shown in the following front view. | ME |

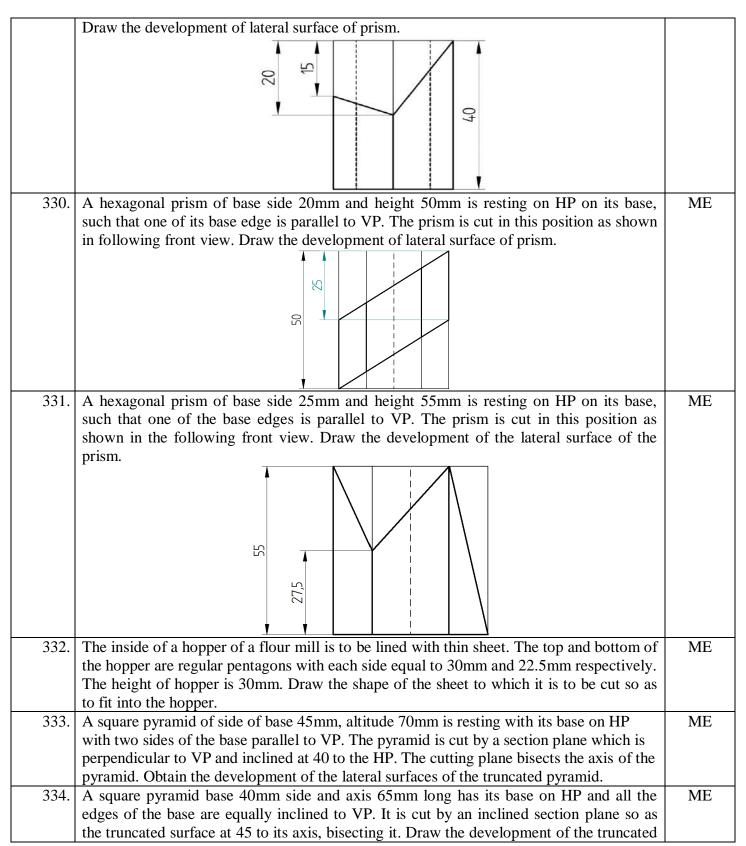
Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

IQAC

Academics
Student Centric
Methods



Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

| Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE |
|---|
|---|

| | pyramid. | |
|------|---|----|
| 335. | A frustum of a square pyramid has its base 40mm sides, top 16mm sides and height 60mm, its axis is vertical and a side of its base is parallel to VP. Draw the projections of the frustum and show the development of lateral surfaces of it. | ME |
| 336. | A square pyramid of 25mm base edge and 50mm height rests with its base on HP with its entire base edges equally inclined to VP. It is cut by plane perpendicular to VP and inclined to HP at 60, passing through the extreme right corner of base. Draw the development of lateral surface of pyramid. | ME |
| 337. | A rectangular pyramid, side of base 25 mm × 40 mm and height 50mm has one of the sides of the base inclined at 30 to VP. Draw the development of the lateral surface of the cut pyramid, whose front view shown below. | ME |
| 338. | A frustum of a pentagonal pyramid, smaller base sides 16mm and bigger top face sides 32mm and height 40 mm, is resting on the HP on its smaller base, with one of its base sides parallel to VP. Draw the projections of the frustum and develop the lateral surface of it. | ME |
| 339. | A regular pentagonal pyramid of side of base 35mm and altitude 65mm has its base on HP with a side of base perpendicular to VP. The pyramid is cut by section plane which is perpendicular to VP and inclined at 30 to HP. The cutting plane meets the axis of the pyramid at a point 30mm below the vertex. Obtain the development of the remaining part of the pyramid. | ME |
| 340. | A pentagonal pyramid, 30mm sides, with a side of base perpendicular to VP. Draw the development of the lateral surfaces of the retained portion of the pyramid shown by the dark lines in the following figure. | ME |
| | A pentagonal pyramid 30mm edges of base and 50mm height rests vertically with one of | ME |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics Student Centric Methods

| | its base edges parallel to VP and nearer to it. It is cut as shown in the following figure. | |
|------|---|------|
| 2.12 | Draw the development of the lateral surfaces of the upper portion of the pyramid. | 3.65 |
| 342. | A hexagonal pyramid, base sides 25mm and height 60mm, is resting with its base on HP | ME |
| | and an edge of base inclined at 40 to VP. It is cut to the shape of a truncated pyramid | |
| | with the truncated surface indicated in the front view at a point on the axis 20mm from | |
| | the apex and inclined at 40 to XY. Draw the projections and show the development of the | |
| | lateral surface of the remaining portion of the pyramid. | |
| | 98 | |
| 343. | A hexagonal pyramid of sides 35mm and altitude 65mm is resting on HP on its base with | ME |
| | two of the base sides perpendicular to VP. The pyramid is cut by a plane inclined at 30 to | |
| | HP and perpendicular to VP and is intersecting the axis at 30mm above the base. Draw | |
| | the development of the remaining portion of the pyramid. | |
| 344. | A hexagonal pyramid 25mm side of base and axis 65mm long is resting on its base on HP | ME |
| | with one of the edges of the base parallel to VP. It is cut by a vertical section plane at a | |
| | distance of 8mm from the axis towards right side. Develop the lateral surface of the left | |
| | part of pyramid. | |
| 345. | A hexagonal pyramid of 30mm base sides with a side of base parallel to VP. Draw the | ME |
| | development of the lateral surfaces of the retained portions of the pyramid cut by two | |
| | perpendicular planes shown by dark lines in the figure. | |
| | 30 | |
| 346. | A vertical cylinder of base diameter 45mm and axis length 60mm is cut by a plane | ME |
| | perpendicular to VP and inclined at 50 to HP, is passing through the center point of the | |
| | top face. Draw the development of the lateral surface of the cylinder. | |
| 347. | Following figure shows the front view of a model of a steel chimney of diameter 54 mm | ME |
| | made from a flat thin sheet metal fitted over an inclined plane roof. Develop the portion of the chimney. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

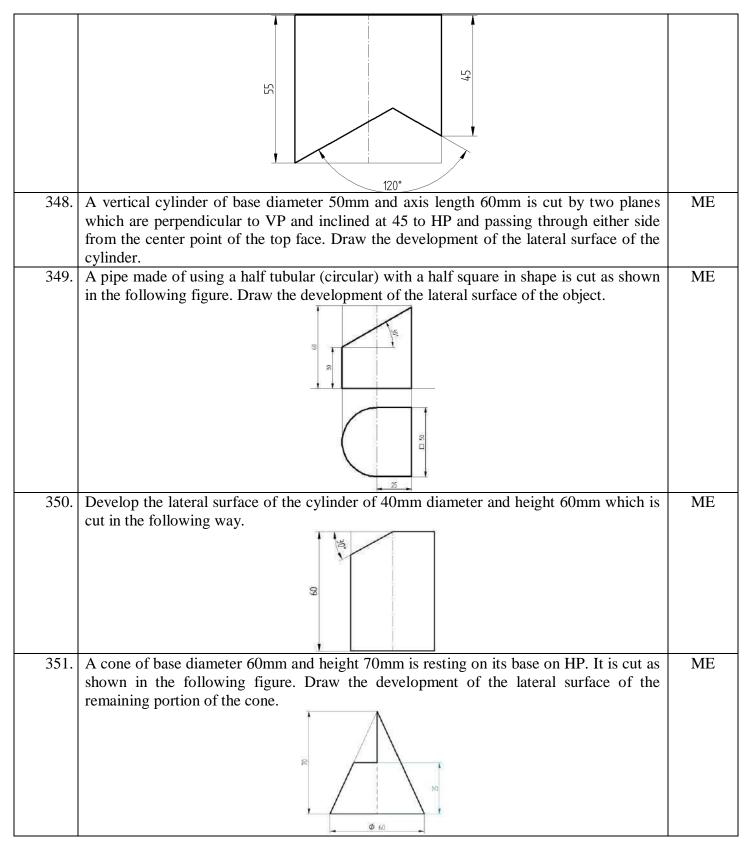
Internships, Field

IQAC

Academics

Student Centric

Methods Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE work & Visits



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE

Methods

Internships, Field work & Visits

IQAC

Academics

Student Centric

| 352. | Develop the lateral surface of the cylinder of 40mm diameter and height 60mm which is cut in the following way. | ME |
|------|---|--------|
| | | |
| | | |
| 353. | A cone of base diameter 60mm and height 70mm is resting on its base on HP. It is cut as | ME |
| | shown in the following figure. Draw the development of the lateral surface of the | |
| | remaining portion of the cone. | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| 354. | Draw the Development of the lateral surface of a truncated vertical cylinder, 40mm | ME |
| | diameter of base and height 50 mm, the truncated flat surface of the cylinder bisects the | |
| | axis at 60 to it. | |
| 355. | Develop the lateral surface of the cylinder of 40mm diameter and height 60mm cut in the following way. | ME |
| | | |
| | | |
| 356. | A right cone of 60mm diameter of base and 75mm height stands on its base on HP. It is | ME |
| 330. | cut to the shape of a truncated cone with its truncated surface inclined at 45 to the axis | 1711.5 |
| | lying at a distance of 40 mm from the apex of the cone. Obtain the development of the | |
| | lateral surface of the truncated cone. | |
| 357. | Draw the development of following truncated cone. | ME |

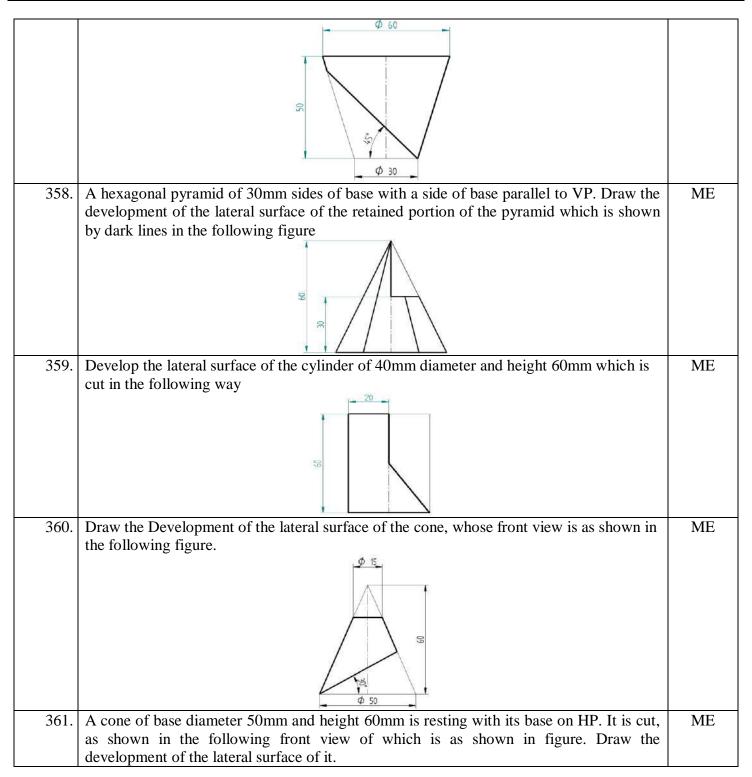
Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics Student Centric Methods

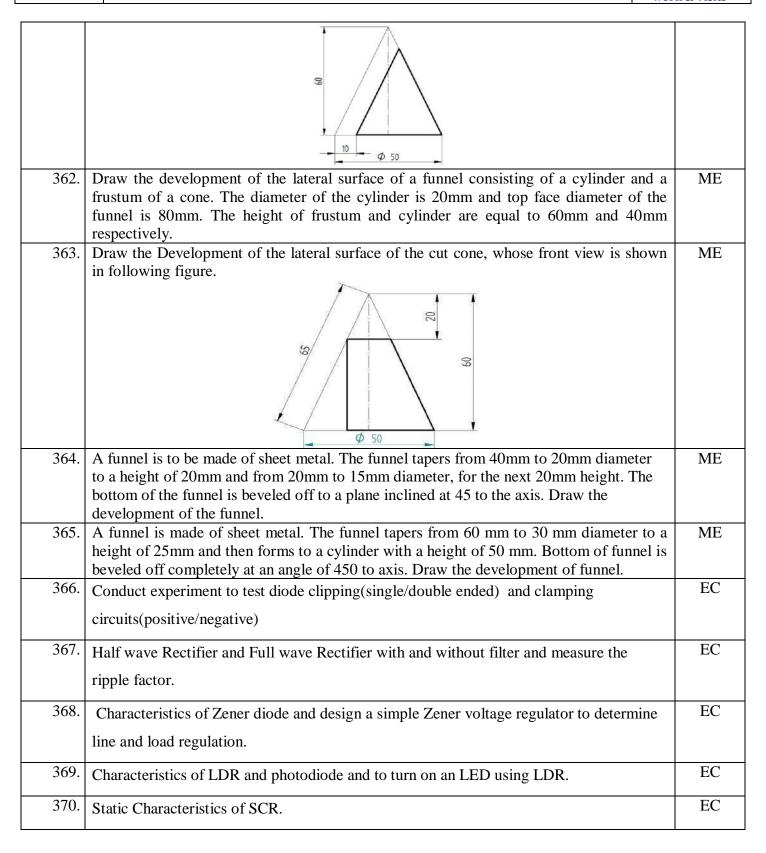


Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Internships, Field
work & Visits

IQAC



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | SCR controlled HWR and FWR using RC triggering circuit. | EC |
|------|---|----|
| 372. | Conduct an experiment to measure temperature in terms of current/voltage using a temperature sensor bridge. | EC |
| 373. | Measurement of Resistance using wheatstone's bridge and kelvin's bridge. | EC |
| 374. | Input and output characteristics of BJT Emitter configuration and Evaluation of Parameters. | EC |
| 375. | Transfer and drain characteristics of a JFET and MOSFET. | EC |
| 376. | UJT triggering circuits for Controlled Rectifiers,. | EC |
| 377. | Design and simulation of Regulated Power supply. | EC |
| 378. | Verify | EC |
| | (a) Demorgan's Theorem for 2 variables. | |
| | (b) The sum -of product and product -of-sum expressions using universal gates. | |
| 379. | Design and implement | EC |
| | (a) Half Adder & Full Adder using (i) basic logic gates and (ii) NAND gates. | |
| | (b) Half Subtractor & Full subtractor using (i) basic logic gates and (ii) NANAD gates | |
| 380. | Design and implement of | EC |
| | (a) 4-bit Parallel Adder/ Subtractor using IC 7483. | |
| | (b) BCD to Excess-3 code conversion and vice versa. | |
| 381. | Design and Implementation of | EC |
| | (a) 1-bit Comparator. (b) 5-bit Magnitude Comparator using IC 7485. | |
| 382. | Realize | EC |
| | (a) Adder & Subtractors using IC 74153. | |
| | (b) 4-variable function using IC 74151(8:1MUX). | |
| 383. | Realize | EC |
| | (a) Adder & Subtractors using IC74139. | |
| | (b) Binary to Gray code conversion & vice versa (IC74139). | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 384. | Realize the following flip/flops using NAND gates. Master-Slave JK, D & T Flip-Flop. | EC |
|------|--|----|
| 385. | Realize the following shift registers using IC7474/IC 7495 | EC |
| | (a)SISO (b) SIPO (c) PISO (d) PIPO (e) Ring and (f) Johnson counter. | |
| 386. | Realize | EC |
| | (i) Design Mod-N Synchronous Up counter & Down Counter using 7476 JK F/F. | |
| | (ii) Mod-N Asynchronous Counter using IC7490/7476. | |
| | (ii) Mod-N Synchronous counter using IC74192. | |
| 387. | Design Pseudo Random Sequence generator using 7495. | EC |
| 388. | Design binary multiplier and simulate using simulation tool. | EC |
| 389. | Programs involving: Data transfer instructions like: | EC |
| | Block Move, Exchange, Sorting, Finding largest element in an array. | |
| 390. | Programs involving: Arithmetic & logical operations like: | EC |
| | Addition/subtraction, multiplication and division, square, Cube – (16 bits Arithmetic | |
| | operations – bit addressable). | |
| 391. | Counters. | EC |
| 392. | Boolean & Logical Instructions (Bit manipulations). | EC |
| 393. | Conditional CALL & RETURN. | EC |
| 394. | Code conversion: BCD – ASCII; ASCII – Decimal; Decimal - ASCII; HEX - Decimal | EC |
| | and Decimal -HEX. | |
| 395. | Programs to generate delay, Programs using serial port and on-Chip timer/counter. | EC |
| 396. | Interface a simple toggle switch to 8051 and write an ALP to generate an interrupt which | EC |
| | switches on an LED (i) continuously as long as switch is on and (ii) only once for a small | |
| | time when the switch is turned on. | |
| 397. | Write a C program to (i) transmit and (ii) to receive a set of characters serially by | EC |
| | interfacing 8051 to a terminal. | |
| 398. | Write ALPs to generate waveforms using ADC interface. | EC |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 399. | Write ALP to interface an LCD display and to display a message on it. | EC |
|------|--|----|
| 400. | Write ALP to interface a Stepper Motor to 8051 to rotate the motor. | EC |
| 401. | Design and setup the Common Source JFET/MOSFET amplifier and plot the frequency response. | EC |
| 402. | Design and set up the BJT common emitter voltage amplifier with and without feedback and determine the gain- bandwidth product, input and output impedances. | EC |
| 403. | Design and set-up BJT/FET i) Colpitts Oscillator, and ii) Crystal Oscillator | EC |
| 404. | Design active second order Butterworth low pass and high pass filters. | EC |
| 405. | Design Adder, Integrator and Differentiator circuits using Op-Amp | EC |
| 406. | Test a comparator circuit and design a Schmitt trigger for the given UTP and LTP values and obtain the hysteresis. | EC |
| 407. | Design 4 bit R – 2R Op-Amp Digital to Analog Converter (i) using 4 bit binary input from toggle switches and (ii) by generating digital inputs using mod-16 counter. | EC |
| 408. | Design Monostable and a stable Multivibrator using 555 Timer. | EC |
| 409. | RC Phase shift oscillator and Hartley oscillator Simulation using PSpice | EC |
| 410. | Narrow Band-pass Filter and Narrow band-reject filter Simulation using PSpice | EC |
| 411. | Precision Half and full wave rectifier Simulation using PSpice | EC |
| 412. | Monostable and A stable Multivibrator using 555 Timer Simulation using PSpice | EC |
| 413. | Verification of sampling theorem (use interpolation function). | EC |
| 414. | Linear and circular convolution of two given sequences, Commutative, distributive and associative property of convolution. | EC |
| 415. | Auto and cross correlation of two sequences and verification of their properties | EC |
| 416. | Solving a given difference equation. | EC |
| 417. | Computation of N point DFT of a given sequence and to plot magnitude and | EC |

Hirasugar Institute of Technology, Nidasoshi

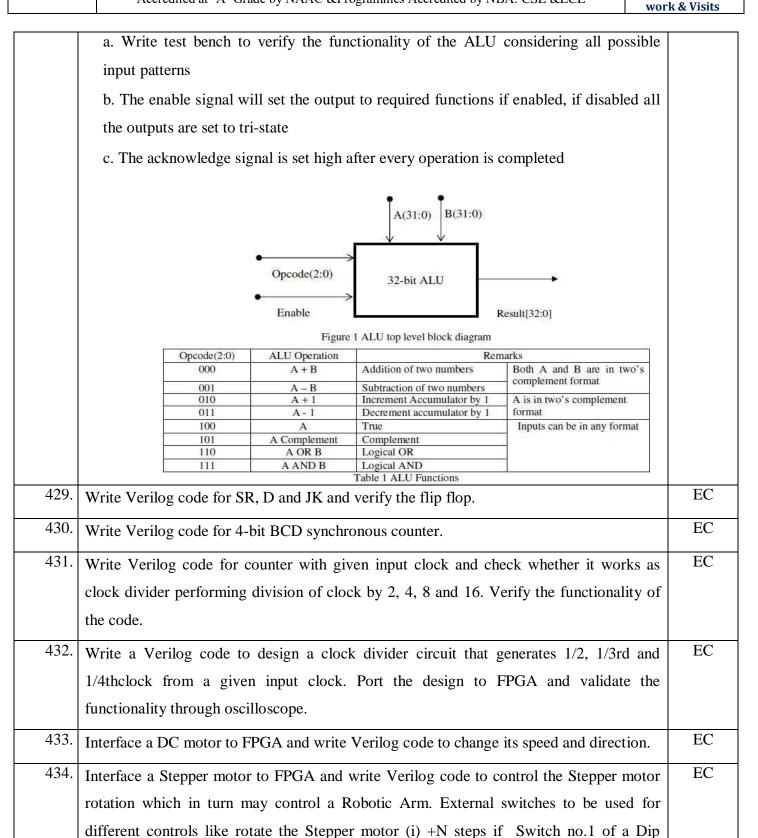
Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | phase spectrum (using DFT equation and verify it by built-in routine). | |
|------|--|----|
| 418. | (i) Verification of DFT properties (like Linearity and Parsevals theorem, etc.) | EC |
| | (ii) DFT computation of square pulse and sinc function etc. | |
| 419. | Design and implementation of Low pass and High pass FIR filter to meet the desired | EC |
| | specifications (using different window techniques) and test the filter with an audio file. | |
| | Plot the spectrum of audio signal before and after filtering. | |
| 420. | Design and implementation of a digital IIR filter (Low pass and High pass) to meet given | EC |
| | specifications and test with an audio file. Plot the spectrum of audio signal before and | |
| | after filtering. | |
| 421. | Obtain the Linear convolution of two sequences using DSP kit | EC |
| 422. | Compute Circular convolution of two sequences using DSP kit | EC |
| 423. | Compute the N-point DFT of a given sequence using DSP kit | EC |
| 424. | Determine the Impulse response of first order and second order system using DSP kit | EC |
| 425. | Generation of Sine wave and standard test signals using DSP kit | EC |
| 426. | Write Verilog program for the following combinational design along with test bench to | EC |
| | verify the design: | |
| | a. 2 to 4 decoder realization using NAND gates only (structural model) | |
| | b. 8 to 3 encoder with priority and without priority (behavioural model) | |
| | c. 8 to 1 multiplexer using case statement and if statements | |
| | d.4-bit binary to gray converter using 1-bit gray to binary converter 1-bit adder and | |
| | subtractor | |
| 427. | Model in Verilog for a full adder and addfunctionality to perform logical operations of | EC |
| | XOR, XNOR, AND and OR gates. Write test bench with appropriate input patterns to | |
| | verify the modelled behaviour.3. Write a Verilog/VHDL code to describe the functions of | |
| | a Full Adder Using three modeling styles. | |
| 428. | Verilog 32-bit ALU shown in figure below and verify the functionality of ALU by | EC |
| | selecting appropriate test patterns. The functionality of the ALU is presented in Table 1. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Academics
Student Centric
Methods
Internships, Field



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | switch is closed (ii) +N/2 steps if Switch no. 2 of a Dip switch is closed (iii) -N steps if Switch no. 3 of a Dip switch is closed etc. | |
|------|---|----|
| 435. | • | EC |
| 436. | Write Verilog code using FSM to simulate elevator operation. | EC |
| 437. | Write Verilog code to convert an analog input of a sensor to digital form and to display the same on a suitable display like set of simple LEDs, 7-segment display digits or LCD display. | EC |
| 438. | ALP to write data to RAM | EC |
| 439. | Display "Hello World" message using Internal UART (using LPC7168) | EC |
| 440. | Interface and Control a DC Motor (using LPC7168) | EC |
| 441. | Interface a Stepper motor and rotate it in clockwise and anti-clockwise direction (using LPC7168) | EC |
| 442. | Interface a DAC and generate Triangular and Square waveforms (using LPC7168) | EC |
| 443. | Interface a 4x4 keyboard and display the key code on an LCD (using LPC7168) | EC |
| 444. | Demonstrate the use of an external interrupt to toggle an LED On/Off (using LPC7168) | EC |
| 445. | Display the Hex digits 0 to F on a 7-segment LED interface, with an appropriate delay in between (using LPC7168) | EC |
| 446. | Measure ambient temperature using a sensor and SPI ADC IC(using LPC7168) | EC |
| 447. | Frequency modulation and demodulation (IC8038/2206 can be used) | EC |
| 448. | Pulse sampling ,flat top sampling and reconstruction | EC |
| 449. | Time Division Multiplexing and Demultiplexing of two band limited signals. | EC |
| 450. | FSK and PSK generation and detection | EC |
| 451. | Measurement of frequency, guide wavelength, power, VSWR and attenuation in | EC |

DO O

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | microwave test bench. | |
|------|---|----|
| 452. | ObtaintheRadiationPatternandMeasurementofdirectivityandgainofmicrostripdipolean | EC |
| | dYagi antennas. | |
| 453. | Determination of | EC |
| | a. Coupling and isolation characteristics of micro strip directional coupler. | |
| | b. Resonance characteristics of micro strip ring resonator and computation of | |
| | dielectric constant of the substrate. Power division and isolation of micro strip | |
| | power divider | |
| 454. | Simulate NRZ, RZ, half-sinusoid and raised cosine pulses and generate eye diagram | EC |
| | for binary polar signaling. | |
| 455. | Pulse code modulation and demodulation system | EC |
| 456. | Computations of the Probability of bit error for coherent binary ASK, FSK and PSK | EC |
| | for an AWGN Channel and Compare them with their Performance curves. | |
| | Digital Modulation Schemes i) DPSK Transmitter and receiver, ii) QPSK Transmitter | |
| | and Receiver | |
| 457. | Implementapointtopointnetworkwithfournodesandduplexlinksbetweenthem. Analy | EC |
| | ze the network performance by setting the queue size and varying the bandwidth. | |
| 458. | Implementafournodepointtopointnetworkwithlinksn0-n2,n1-n2andn2- | EC |
| | n3.ApplyTCPagentbetween n0-n3 and UDP between n1-n3. Apply relevant | |
| | applications over TCP and UDP agents changing the parameter and determine the | |
| | number of packets sent by TCP/UDP. | |
| 459. | Implement Ethernet LAN using n (6-10) nodes. Compare the throughput by | EC |
| | changing the error rate and data rate. | |
| 460. | Implement Ethernet LAN using n nodes and assign multiple traffic clothe | EC |
| | nodes and obtain congestion window for different sources/ destinations. | |
| 461. | Implement ESS with transmission nodes in Wireless LAN and obtain the performance | EC |
| | parameters. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 462. | Implementation of Link stator outing algorithm. | EC |
|------|---|----|
| 463. | Write a program for a HLDC frame toper form the following. 1. Bit stuffing 2. Character stuffing. | EC |
| 464. | Write a program for distance vector algorithm to find suitable path for transmission. | EC |
| 465. | Implement Dijkstra's algorithm to compute the shortest routing path. | EC |
| 466. | For the given data, use CRC-CCITT polynomialtoobtain CRC code. Verify the program for the cases 1.Without error 2. With error | EC |
| 467. | Implementation of Stop and Wait Protocol and Sliding Window Protocol | EC |
| 468. | Write a program for congestion control using leaky bucket algorithm | EC |
| 469. | Capture the schematic of CMOS inverter with load capacitance of $0.1pF$ and set the widths of inverter with $Wn = Wp, Wn = 2Wp, Wn = Wp/2$ and length at selected technology | EC |
| 470. | Draw layout of inverter with Wp/Wn = $40/20$, use optimum layout methods. Verify for DRC and LVS, extract parasitic and perform post layout simulations, compare the results with pre-layout simulations. Record The observations. | EC |
| 471. | Capture the schematic of 2-input CMOS NAND gate having similar delay as that of CMOS inverter computed in experiment 1. Verify the functionality of NAND gate and also find out the delay td for all four possible combinations of input vectors. Table the results. Increase the drive strength to 2X and 4X and tabulate the results. | EC |
| 472. | Draw layout of NAND withWp/Wn=40/20,use optimum layout methods .Verify for DRC and LVS, Extract parasitic and perform post layout simulations, compare the results with pre-layout simulations. Record the observations | EC |
| 473. | Capture schematic of Common Source Amplifier with PMOS Current Mirror Load and find its transient response and AC response? Measures the Unity Gain Band width (UGB), amplification factor by varying transistor geometries, study the impact of variation in width to UGB. | EC |
| 474. | Draw layout of common source amplifier, use optimum layout methods. Verify for | EC |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | DRC and LVS, extract parasitic and perform post layout simulations, compare the | |
|------|---|----|
| | results with pre-layout simulations. Record the observations. | |
| 475. | Capture schematic of two-stage operational amplifier and measure the following: UGB | EC |
| | dB bandwidth Gain margin and phase margin with and without coupling capacitance | |
| 476. | Forthesynthesizednetlistcarryoutthefollowingforanytwoaboveexperiments: | EC |
| | 1.Floor planning(automatic), identify the placement of pads | |
| | 2.Placement and Routing, record the parameters such as no. of layers used for | |
| | routing, flip method for placement of standard cells, placement of standard cells, | |
| | routes of power and ground, and routing of standard cells | |
| 477. | Amplitude Modulation and Demodulation of | EC |
| | (a) Standard AM and (b) DSBSC (LM741 and LF398 ICs can be used) | |
| 478. | Frequency modulation and demodulation | EC |
| 479. | Design and test Time Division Multiplexing and Demultiplexing of two band limited | EC |
| | signals. | |
| 480. | Design and test | EC |
| | i) Pulse sampling, flat top sampling and reconstruction. | |
| | ii) Pulse amplitude modulation and demodulation. | |
| 481. | Design and test BJT/FET Mixer | EC |
| 482. | Phase locked loop Synthesis | EC |
| 483. | Illustration of | EC |
| | (a) AM modulation and demodulation and display the signal and its spectrum. | |
| | (b) DSB-SC modulation and demodulation and display the signal and | |
| | its spectrum. (Use MATLAB/SCILAB) | |
| 484. | Illustration of FM modulation and demodulation and display the signal and its spectrum. | EC |
| | (Use MATLAB/SCILAB) | |
| | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | the signals and its spectrums of both analog and sampled signals. (Use | |
|------|---|-----|
| | MATLAB/SCILAB). | |
| 486. | Illustration of Delta Modulation and the effects of step size selection in the design of | EC |
| | DM encoder. (Use MATLAB/SCILAB) | |
| 487. | To realize using op-amp an Inverting Amplifier and Non-Inverting Amplifier using | EC |
| | simulation tool (Ps pice) | |
| 488. | To realize using op-amps i) Summing Amplifier ii)Difference amplifier using simulation | EC |
| | tool (Ps pice) | |
| 489. | To realize using op-amps an Instrumentation Amplifier using simulation tool (Ps pice) | EC |
| 490. | To realize using op-amps i) Differentiator ii)Integrator using simulation tool (Ps pice) | EC |
| 491. | To realize using op-amps a Full wave Precision Rectifier using simulation tool (Ps pice) | EC |
| 492. | To realize using op-amps using simulation tool using simulation tool (Ps pice) | EC |
| | Inverting and Non-Inverting Zero Crossing Detectors | |
| | Positive and Negative Voltage level detectors | |
| 493. | To realize using op-amp an Inverting Schmitt Trigger using simulation tool (Ps pice) | EC |
| 494. | To realize using op-amp an Astable Multivibrator using simulation tool (Ps pice) | EC |
| 495. | To design and implement using op-amps using simulation tool (Ps pice) | EC |
| | Butterworth I & II order Low Pass Filter | |
| | Butterworth I & II order High Pass Filter | |
| 496. | To design and implement using op-amp a RC Phase Shift Oscillator using simulation tool | EC |
| | (Ps pice) | |
| 497. | To design and implement Mono-stable Multivibrator using 555 timer using simulation | EC |
| | tool (Ps pice) | |
| 498. | To design and implement 4 - bit R-2R Digital to Analog Converter using simulation tool | EC |
| | (Ps pice) | |
| 499. | Open Circuit and Short circuit tests on single phase step up or step down transformer and | EEE |
| | predetermination of (i) Efficiency and regulation (ii) Calculation of parameters of | |

ESTE OIL PRO

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | equivalent circuit | |
|------|--|-----|
| 500. | Sumpner's test on similar transformers and determination of combined and individual | EEE |
| | transformer efficiency. | |
| 501. | Parallel operation of two dissimilar single-phase transformers of different kVA and | EEE |
| | determination of load. | |
| 502. | Polarity test and connection of 3 single-phase transformers in star – delta and | EEE |
| | determination of efficiency and regulation under balanced resistive load. | |
| 503. | Comparison of performance of 3 single-phase transformers in delta – delta and V – V | EEE |
| | (open delta) connection under load | |
| 504. | Scott connection with balanced and unbalanced loads. | EEE |
| 505. | Separation of hysteresis and eddy current losses in single phase transformer. | EEE |
| 506. | Voltage regulation of an alternator by EMF and MMF methods. | EEE |
| 507. | Voltage regulation of an alternator by ZPF method. | EEE |
| 508. | Power angle curve of synchronous generator or Direct load test on three phase synchrous | EEE |
| | generator to determine efficiency and regulation | |
| 509. | Slip test – Measurement of direct and quadrature axis reactance and predetermination of | EEF |
| | regulation of salient pole synchronous machines. | |
| 510. | Performance of synchronous generator connected to infinite bus, under constant power | EEF |
| | and variable excitation & vice - versa. | |
| 511. | Investigate the voltage and current ratios of a multi-tapped transformer and verify the | EEF |
| | ideal transformer ratio. | |
| 512. | Power angle curve of synchronous generator or Direct load test on three phase | EEF |
| | synchronous generator to determine efficiency and regulation. | |
| 513. | Model transformer in Simscape for Automatic Voltage Regulation. | EEF |
| 514. | Simulate power angle curve of generator in MATLAB. | EEF |
| 515. | Design and Testing of Full wave – centre tapped transformer type and Bridge type | EEF |
| | rectifier circuits with and without Capacitor filter. Determination of ripple factor, | |
| | regulation and efficiency. | |
| 516. | Static Transistor characteristics for CE, CB and CC modes and determination of h | EEF |
| | parameters | |
| 517. | Frequency response of single stage BJT and FET RC coupled amplifier and | EEE |
| | determination of half power points, bandwidth, input and output impedances. | |
| 518. | Design and testing of BJT -RC phase shift oscillator for given frequency of oscillation. | EEE |
| 519. | Determination of gain, input and output impedance of BJT Darlington emitter follower | EEE |
| | with and without bootstrapping. | |
| 520. | Simplification, realization of Boolean expressions using logic gates/Universal gates | EEE |
| 521. | Realization of Half/Full adder and Half/Full Subtractors using logic gates. | EEE |
| 522. | Realization of parallel adder/Subtractors using 7483 chip- BCD to Excess-3 code | EEE |
| | conversion and Vice - Versa. | |
| 523. | Realization of Binary to Gray code conversion and vice versa. | EEE |
| 524. | Design and testing Ring counter/Johnson counter. | EEE |
| 525. | Design and testing of Sequence generator. | EEE |
| 526. | Realization of 3 bit counters as a sequential circuit and MOD – N counter design using | EEE |
| | 7476, 7490, 74192, | |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

| Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE | 11 |
|---|----|
| | |

| 527. | Experiments on clippers and clampers. | EEE |
|-------------------|---|-----|
| 528. | Verifying its logic operation and obtaining its truth table of flip –flops: RS and JK. | EEE |
| 529. | Design, simulation (MATLAB) and testing of Wien bridge oscillator for given frequency of oscillation | EEE |
| 530. | Design and testing of Hartley and Colpitt's oscillator for given frequency of oscillation | EEE |
| 531. | Design and testing of Class A and Class B power amplifier and to determine conversion efficiency. | EEE |
| 532. | Design and simulation of Full wave – centre tapped transformer type and Bridge type rectifier circuits with and without Capacitor filter using MATLAB. Determination of ripple factor, regulation and efficiency. | EEE |
| 533. | | EEE |
| 534. | Field Test on DC series machines. | EEE |
| 535. | Speed control of DC shunt motor by armature and field control | EEE |
| 536. | Swin burne's Test on DC motor. | EEE |
| 537. | Retardation test on DC shunt motor. | EEE |
| 538. | Regenerative test on DC shunt machines. | EEE |
| 539. | Load test on three phase induction motor | EEE |
| 540. | No-load and Blocked rotor test on three phase induction motor to draw(i)equivalent | EEE |
| | circuit and(ii)circle diagram. Determination of performance parameters at different load conditions | |
| 541. | Load test on induction generator. | EEE |
| 542. | Load test on single phase induction motor to draw output versus torque, current, power | EEE |
| J 1 2. | and efficiency characteristics. | |
| 543. | Conduct suitable tests to draw thee equivalent circuit of single phase induction motor and determine performance parameters. | EEE |
| 544. | Conduct an experiment to draw v and Inverted curves of synchronous motor at no load and load conditions. | EEE |
| 545. | Design and verify a precision full wave rectifier. Determine the performance parameters. | EEE |
| 546. | Design and realize to analyse the frequency response of an op – amp amplifier under inverting and non - inverting configuration for a given gain. | EEE |
| 547. | Design and verify the output waveform of an op – amp RC phase shift oscillator for a desired frequency | EEE |
| 548. | Design and realize Schmitt trigger circuit using an op – amp for desired upper trip point (UTP) and lower trip point (LTP). | EEE |
| 549. | Verify the operation of an op – amp as (a) voltage comparator circuit and (b) zero crossing detector. | EEE |
| 550. | Design and verify the operation of op – amp as an (a) adder (b) subtractor (c) integrator and (d) differentiator. | EEE |
| 551. | Design and realize an op – amp based first order Butterworth (a) low pass (b) high pass and (c) band pass filters for a given cut off frequency/frequencies to verify the frequency response characteristic. | EEE |
| 552. | Design and realize an op – amp based function generator to generate sine, square and triangular waves of desired frequency. | EEE |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 553. | Design and realization of R-2R ladder DAC. | EEE |
|------|---|-----|
| 554. | Realization of Two bit Flash ADC. | EEE |
| 555. | Design and verify an IC 555 timer based pulse generator for the specified pulse. | EEE |
| 556. | Designing of Fixed voltage power supply (voltage regulator) using IC regulators 78 series and 79 series. | EEE |
| 557. | Data transfer – Program for block data movement, sorting, exchanging, finding largest element in an array | EEE |
| 558. | Arithmetic instructions: Addition, subtraction, multiplication and division. Square and cube operations for 16 bit numbers. | EEE |
| 559. | Counters | EEE |
| 560. | Boolean and logical instructions (bit manipulation). | EEE |
| 561. | Conditional call and return instructions. | EEE |
| 562. | Code conversion programs – BCD to ASCII, ASCII to BCD, ASCII to decimal, Decimal to ASCII, Hexa | EEE |
| 563. | Programs to generate delay, using serial port and on-chip timer/counters. | EEE |
| 564. | Stepper motor interface. | EEE |
| 565. | DC motor interface for direction and speed control using PWM. | EEE |
| 566. | Alphanumerical LCD panel interface. | EEE |
| 567. | Generate different waveforms: Sine, Square, Triangular, Ramp using DAC interface. | EEE |
| 568. | External ADC and Temperature control interface. | EEE |
| 569. | Elevator interface. | EEE |
| 570. | Static Characteristics of SCR | EEE |
| 571. | Static Characteristics of MOSFET and IGBT. | EEE |
| 572. | Characteristic of TRIAC. | EEE |
| 573. | SCR turn on circuit using synchronized UJT relaxation oscillator | EEE |
| 574. | SCR digital triggering circuit for a single phase controlled rectifier and ac voltage regulator. | EEE |
| 575. | Single phase controlled full wave rectifier with R load, R –L load, R-L-E load with and without free wheeling diode. | EEE |
| 576. | AC voltage controller using TRIAC and DIAC combination connected to R and RL loads. | EEE |
| 577. | Speed control of DC motor using single semi converter. | EEE |
| 578. | Speed control of stepper motor | EEE |
| 579. | Speed control of universal motor using ac voltage regulator. | EEE |
| 580. | Speed control of a separately excited D.C. Motor using an IGBT or MOSFET chopper. | EEE |
| 581. | Single phase MOSFET/IGBT based PWM inverter. | EEE |
| 582. | Experiment to draw the speed torque characteristics of (i) AC servo motor (ii) DC servo motor | EEE |
| 583. | Experiment to draw synchro pair characteristics | EEE |
| 584. | Experiment to determine frequency response of a second order system | EEE |
| 585. | (a) To design a passive RC lead compensating network for the given specifications, viz, the maximum phase lead and the frequency at which it occurs and to obtain the frequency response. | EEE |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| 586. | | EEE |
|------------|--|-----|
| | maximum phase lag and the frequency at which it occurs and to obtain the frequency | |
| | response. | |
| | b) To determine experimentally the transfer function of the lag compensating network. | |
| 587. | Eperiment to draw the frequency response characteristics of the lag-lead compensator | EEE |
| | network and determination of its transfer function. | |
| 588. | To study a second order system and verify the effect of (a) P, (b) PI, (c) PD and (d) PID | EEE |
| | controller on the step response. | |
| 589. | | EEE |
| | time response specifications | |
| | b) To evaluate the effect of adding poles and zeros on time response of second order | |
| | system. | |
| | c) To evaluate the effect of pole location on stability. | |
| 590. | a) To simulate a D.C. Position control system and obtain its step response. | EEE |
| | b) To verify the effect of input waveform, loop gain and system type on steady state | |
| | errors. | |
| | c) To perform trade-off study for lead compensator. | |
| 701 | d) To design PI controller and study its effect on steady state error. | |
| 591. | a) To examine the relationship between open-loop frequency response and stability, | EEE |
| | open-loop frequency and closed loop transient response. | |
| | b) To study the effect of open loop gain on transient response of closed loop system using | |
| 502 | root locus. | EEE |
| 592. | a) To study the effect of open loop poles and zeros on root locus contour. | EEE |
| 502 | b) Comparative study of Bode, Nyquist and root locus with respect to stability. | DDD |
| 593. | Verification of Sampling Theorem both in time and frequency domains | EEE |
| 594. | Evaluation of impulse response of a system | EEE |
| 595. | To perform linear convolution of given sequences | EEE |
| 596. | To perform circular convolution of given sequences using (a) the convolution summation | EEE |
| | formula. | PPP |
| 597. | | EEE |
| 598. | · · · · · · · · · · · · · · · · · · · | EEE |
| 599. | | EEE |
| 600. | Calculation of DFT and IDFT by FFT | EEE |
| 601. | Design and implementation of IIR filters to meet given specification (Low pass, high | EEE |
| 602 | pass, band pass and band reject filters) | BBB |
| 602. | Design and implementation of FIR filters to meet given specification (Low pass, high | EEE |
| 602 | pass, band pass and band reject filters) using different window functions. | DDD |
| 603. | | EEE |
| 50.4 | pass, band pass and band reject filters) using frequency sampling technique. | PPP |
| 604. | Realization of IIR and FIR filters. | EEE |
| 605. | , , | EEE |
| 70.5 | Efficiency and Regulation. | PPE |
| 606. | Determination of Power Angle Diagrams, Reluctance Power, Excitation, EMF and | EEE |
| | Regulation for Salient and Non-Salient Pole Synchronous Machines. | |
| | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| 607. | | EEE |
|------|---|-----|
| | Constant/Line Parameters /Fault Location/Clearing Time/Pre-Fault Electrical Output for | |
| | a Single Machine connected to Infinite Bus through a Pair of identical Transmission | |
| (00 | Lines Under 3-Phase Fault On One of the two Lines. | PPP |
| 608. | Y Bus Formation for Power Systems with and without Mutual Coupling, by Singular | EEE |
| 609. | Formation of Z Bus (without mutual coupling) using Z-Bus Building Algorithm. | EEE |
| 610. | Determination of Bus Currents, Bus Power and Line Flow for a Specified System Voltage. | EEE |
| 611 | Formation of Jacobian for a System not Exceeding 4 Buses in Polar Coordinates | EEE |
| 611. | | EEE |
| 012. | Load Flow Analysis using Gauss Siedel Method, NR Method and Fast Decoupled Method for Both PQ and PV Buses. | EEE |
| 613. | To Determine Fault Currents and Voltages in a Single Transmission Line System with | EEE |
| 614. | Optimal Generation Scheduling for Thermal power plants by simulation. | EEE |
| 615. | Over Current Relay: | EEE |
| | (a)Inverse Definite Minimum Time(IDMT) Non Directional Characteristics | |
| | (b) Directional Features | |
| | (c) IDMT Directional. | |
| 616. | IDMT Characteristics of Over Voltage or Under Voltage Relay (Solid State or | EEE |
| | Electromechanical type). | |
| 617. | Operation of Negative Sequence Relay | EEE |
| 618. | Operating Characteristics of Microprocessor Based (Numeric) Over –Current Relay. | EEE |
| 619. | Operating Characteristics of Microprocessor Based (Numeric) Distance Relay. | EEE |
| 620. | Operating Characteristics of Microprocessor Based (Numeric) Over/Under Voltage. | EEE |
| 621. | Generation Protection: Merz Price Scheme. | EEE |
| 622. | Feeder Protection against Faults. | EEE |
| 623. | <u> </u> | EEE |
| 624. | Spark Over Characteristics of Air subjected to High Voltage AC with Spark Voltage | EEE |
| | Corrected to Standard Temperature and Pressure for Uniform [as per IS1876: 2005] and | |
| | Nonuniform [as per IS2071(Part 1): 1993] Configurations: Sphere – Sphere, Point – | |
| | Plane. | |
| 625. | Spark Over Characteristics of Air subjected to High voltage DC. | EEE |
| 626. | Measurement of HVAC and HVDC using Standard Spheres as per IS 1876:2005 | EEE |
| 627. | Measurement of Breakdown Strength of Transformer Oil as per IS 1876:2005 | EEE |
| 628. | Field Mapping using Electrolytic Tank for any one of the following Models: Cable/ | EEE |
| | Capacitor | |
| 629. | (a) Generation of standard lightning impulse voltage and to determine efficiency and | EEE |
| | energy of impulse generator. (b) To determine 50% probability flashover voltage for air | |
| | insulation subjected to impulse voltage. | |
| 630. | Loading effect of different voltmeters on an electric circuit. | EEE |
| 631. | Voltage Dividers with Loads | EEE |
| 632. | Measurement AC and DC quantities (voltage, frequency, current) using oscilloscope. | EEE |
| 633. | Determination of resonant frequency, bandwidth, and Q of a series circuit. | EEE |
| 634. | Determination of resonant frequency, bandwidth, and Q of a parallel circuit. | EEE |
| 635. | Verification of Thevenin's theorem. | EEE |

and Triangular

simple C – Code.

662.

663.

664.

665.

666.

667.

Signals of desired frequency.

coefficients. (No built-in math function)

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| 636. | Verification of Norton's theorem. | EEE |
|------|--|------|
| 637. | Verification of Superposition theorem. | EEE |
| 638. | Power factor correction. | EEE |
| 639. | Measurement of time constant of an RC circuit. | EEE |
| 640. | Study of the effect of Open and Short circuits in simple circuits. | EEE |
| 641. | Verification of maximum Power transfer theorem. | EEE |
| 642. | Construct Astable Multivibrator circuit using IC-555 Timer. | EEE |
| 643. | Construct Mono-stable Multivibrator circuit using IC-555 Timer. | EEE |
| 644. | Construct and test Sequential timer using IC-555. | EEE |
| 645. | Generate Pulse Width Modulator (PWM) signal using IC-555 Timer. | EEE |
| 646. | Construct Burglar Alarm circuit using IC-555 Timer. | EEE |
| 647. | Construct and generate Frequency Shift Keying (FSK) signal using IC-555 Timer. | EEE |
| 648. | Construct and test Running LED circuit using IC-555 Timer. | EEE |
| 649. | Construct water level indicator using IC-555 Timer. | EEE |
| 650. | Construct continuity tester using IC-555 Timer. | EEE |
| 651. | Design and Analysis of (i) Voltage Follower (ii) Inverting & Non – Inverting Amplifier. | EEE |
| 652. | Design and Analysis of full wave rectifier and determine its performance parameters. | EEE |
| 653. | Design and Analysis of frequency response of an Operational Amplifier under | DDD |
| | inverting and non -inverting configuration for a given gain. | EEE |
| 654. | Design and Analysis of Operational Amplifier based RC Phase Shift Oscillator. | EEE |
| 655. | Design and Analysis of an Operational Amplifier based Wein Bridge Oscillator. | EEE |
| 656. | Design and Analysis of Operational Amplifier based Schmitt Trigger. | EEE |
| 657. | Design and Analysis of Operational Amplifier based (i) Voltage Comparator circuit and (ii) Zero Crossing Detector. | EEE |
| 658. | Design and Analysis of Op-Amp based (i) Adder (ii) Subtractor (iii) Integrator and (iv) | EEE |
| | Differentiator. | Lili |
| 659. | Design and Analysis of Frequency Response Characteristics Op-Amp based First Order Butterworth (i) Low Pass, (ii) High Pass Filters. | EEE |
| 660. | Design and Analysis of Frequency Response Characteristics Op-Amp based First | EEE |
| | Order Butterworth (i)Band Pass, (ii) Band Rejection Filters. | |
| 661. | Design and Analysis of Op-Amp based Function Generator to generate Sine, Square | |

Design and Analysis of Op-Amp based R – 2R ladder Digital to Analog Converter.

Familiarization with computer hardware and programming environment, concept of naming the program files, storing, compilation, execution and debugging, taking any

Design and Analysis of Op-Amp based two bit flash Analog to Digital Converter.

Develop a program to compute the roots of a quadratic equation by accepting the

Develop a program to compute the roots of a quadratic equation by accepting the

Design and Analysis of Three Op-Amp Instrumentation Amplifier.

EEE

EEE

EEE

EEE

CSE

CSE

CSE

DO O

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 668. | Develop a program to find the reverse of a posit integer and check for PALINDROME or NOT. Display appropriate messages. Ex: Num: 2014, Reverse: 4102, Not a Palindrome. | CSE |
|------|---|-----|
| 669. | An electricity board charges the following rates for the use of electricity: for the first 200 units 80 paise per unit: for the next 100 units 90 paise per unit: beyond 300 units Rs 1 per unit. All users are charged a minimum of Rs. 100 as meter charge. If the total amount is more than Rs. 400, then an additional surcharge of 15% of total amount is charged. Write a program to read the same of the user, number of units consumed and print out the charges. | CSE |
| 670. | Introduce 1 D Array manipulation and implement Binary search. | CSE |
| 671. | Implement using functions to check whether the given number is prime and display appropriate messages. (No built-in math function). | CSE |
| 672. | Develop a program to introduce 2D Array manipulation and implement Matrix multiplication and ensure the rules of manipulation are checked. | CSE |
| 673. | Develop a program to compute Sin(x) using Taylor series approximation. Compare your result with the built-in Library function. Print both the results with appropriate messages. | CSE |
| 674. | Write functions to implement string operations such as compare, concatenate, string length. Convince the parameter passing techniques. | CSE |
| 675. | Develop a program to sort the given set of N numbers using Bubble sort. | CSE |
| 676. | Develop a program to find the square root of a given number N and execute for all possible inputs with appropriate messages. Note: Don't use library function sqrt (n). | CSE |
| 677. | Implement structures to read, write and compute average marks for a class of N students. | CSE |
| 678. | Develop a program using pointers to compute the sum, mean and standard deviation of all elements stored in an array of n real numbers. | CSE |
| 679. | Implement Recursive functions for Binary to Decimal Conversion. | CSE |
| 680. | Design an astablemultivibratorciruit for three cases of duty cycle (50%, <50% and >50%) using NE 555 timer IC. Simulate the same for any one duty cycle. | CSE |
| 681. | simulate the same | CSE |
| 682. | Using ua 741 opamap, design a window comparate for any given UTP and LTP. And simulate the same. | CSE |
| 683. | Design and implement Half adder, Full Adder, Half Subtractor, Full Subtractor using basic gates. And implement the same in HDL. | CSE |
| 684. | Given a 4-variable logic expression, simplify it using appropriate technique and realize the simplified logic expression using 8:1 multiplexer IC. And implement the same in HDL. | CSE |
| 685. | Realize a J-K Master / Slave Flip-Flop using NAND gates and verify its truth table. And | CSE |

TO THE STATE OF TH

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | implement the same in HDL. | |
|------|---|-----|
| 686. | Design and implement code converter I)Binary to Gray (II) Gray to Binary Code using basic gates. | CSE |
| 687. | Design and implement a mod-n (n<8) synchronous up counter using J-K Flip-Flop ICs and demonstrate its working. | CSE |
| 688. | Design and implement an asynchronous counter using decade counter IC to count up from 0 to n (n<=9) and demonstrate on 7-segment display (using IC-7447) | CSE |
| 689. | operations. a. Creating an array of N Integer Elements b. Display of array Elements with Suitable Headings c. Inserting an Element (ELEM) at a given valid Position (POS) d. Deleting an Element at a given valid Position (POS) e. Exit. Support the program with functions for each of the above operations. | CSE |
| 690. | Design, Develop and Implement a Program in C for the following operations on Strings. a. Read a main String (STR), a Pattern String (PAT) and a Replace String (REP) b. Perform Pattern Matching Operation: Find and Replace all occurrences of PAT in STR with REP if PAT exists in STR. Report suitable messages in case PAT does not exist in STR Support the program with functions for each of the above operations. Don't use Built-in functions. | CSE |
| 691. | Design, Develop and Implement a menu driven Program in C for the following operations on STACK of Integers (Array Implementation of Stack with maximum size MAX) a. Push an Element on to Stack b. Pop an Element from Stack c. Demonstrate how Stack can be used to check Palindrome d. Demonstrate Overflow and Underflow situations on Stack e. Display the status of Stack f. Exit Support the program with appropriate functions for each of the above operations | CSE |
| 692. | Design, Develop and Implement a Program in C for converting an Infix Expression to Postfix Expression. Program should support for both parenthesized and free parenthesized expressions with the operators: +, -, *, /, % (Remainder), ^ (Power) and alphanumeric operands. | CSE |
| 693. | Design, Develop and Implement a Program in C for the following Stack Applications | CSE |



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Methods Internships, Field work & Visits

IQAC

Academics

Student Centric

| | a. Evaluation of Suffix expression with single digit operands and operators: +, -, *, /, %, ^ b. Solving Tower of Hanoi problem with n disks | |
|------|--|-----|
| 694. | Design, Develop and Implement a menu driven Program in C for the following operations on Circular QUEUE of Characters (Array Implementation of Queue with maximum size MAX) a. Insert an Element on to Circular QUEUE b. Delete an Element from Circular QUEUE c. Demonstrate Overflow and Underflow situations on Circular QUEUE d. Display the status of Circular QUEUE e. Exit Support the program with appropriate functions for each of the above operations | CSE |
| 695. | Design, Develop and Implement a menu driven Program in C for the following operations on Singly Linked List (SLL) of Student Data with the fields: USN, Name, Programme, Sem, PhNo a. Create a SLL of N Students Data by using front insertion. b. Display the status of SLL and count the number of nodes in it c. Perform Insertion / Deletion at End of SLL d. Perform Insertion / Deletion at Front of SLL(Demonstration of stack) e. Exit Design, Develop and Implement a menu driven Program in C for the following operations on Doubly Linked List (DLL) of Employee Data with the fields: SSN, Name, Dept, Designation, Sal, PhNo a. Create a DLL of N Employees Data by using end insertion. b. Display the status of DLL and count the number of nodes in it c. Perform Insertion and Deletion at End of DLL d. Perform Insertion and Deletion at Front of DLL e. Demonstrate how this DLL can be used as Double Ended Queue. f. Exit | CSE |
| 696. | Design, Develop and Implement a Program in C for the following operationson Singly Circular Linked List (SCLL) with header nodes a. Represent and Evaluate a Polynomial P(x,y,z) = 6x2y2z-4yz5+3x3yz+2xy5z-2xyz3 b. Find the sum of two polynomials POLY1(x,y,z) and POLY2(x,y,z) and store the result in POLYSUM(x,y,z) Support the program with appropriate functions for each of the above operations | CSE |
| 697. | Design, Develop and Implement a menu driven Program in C for the following operations on Binary Search Tree (BST) of Integers . a. Create a BST of N Integers: 6, 9, 5, 2, 8, 15, 24, 14, 7, 8, 5, 2 b. Traverse the BST in Inorder, Preorder and Post Order c. Search the BST for a given element (KEY) and report the appropriate message d. Exit | CSE |
| 698. | | CSE |

San Oly see

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Academics
Student Centric
Methods
Internships, Field
work & Visits

IQAC

| | method | |
|------|---|-----|
| 699. | Given a File of N employee records with a set K of Keys (4-digit) which uniquely determine the records in file F. Assume that file F is maintained in memory by a Hash Table (HT) of m memory locations with L as the set of memory addresses (2-digit) of locations in HT. Let the keys in K and addresses in L are Integers. Design and develop a Program in C that uses Hash function H: K \Box L as H(K)=K mod m (remainder method), and implement hashing technique to map a given key K to the address space L. Resolve the collision (if any) using linear probing. | CSE |
| 700. | A) Create a Java class called Student with the following details as variables within it. (i) USN (ii) Name (iii) Programme (iv) Phone Write a Java program to create n Student objects and print the USN, Name, Programme, and Phone of these objects with suitable headings. B) Write a Java program to implement the Stack using arrays. Write Push(), Pop(), and Display() methods to demonstrate its working. | CSE |
| 701. | A) Design a superclass called Staff with details as StaffId, Name, Phone, Salary. Extend this class by writing three subclasses namely Teaching (domain, publications), Technical (skills), and Contract (period). Write a Java program to read and display at least 3 staff objects of all three categories B) Write a Java class called Customer to store their name and date_of_birth. The date_of_birth format should be dd/mm/yyyy. Write methods to read customer data as <name, dd="" mm="" yyyy=""> and display as <name, dd,="" mm,="" yyyy=""> using StringTokenizer class considering the delimiter character as "/".</name,></name,> | CSE |
| 702. | A) Write a Java program to read two integers aandb. Compute a/b and print, when b is not zero. Raise an exception when b is equal to zero. B) Write a Java program that implements a multi-thread application that has three threads. First thread generates a random integer for every 1 second; second thread computes the square of the number andprints; third thread will print the value of cube of the number. | CSE |
| 703. | complexity. Run the program for varied values of n> 5000 and record the time taken to sort. Plot a graph of the time taken versus non graph sheet. The elements can be read from a file or can be generated using the random number generator. Demonstrate using Java how the divide-and-conquer method works along with its time complexity analysis: worst case, average case and best case. | CSE |
| 704. | complexity. Run the program for varied values of n> 5000, and record the time taken to sort. Plot a graph of the time taken versus non graph sheet. The elements can be read from a file or can be generated using the random number generator. Demonstrate using Java how the divide-and-conquer method works along with its time complexity analysis: worst case, average case and best case. | CSE |
| 705. | Implement in Java, the 0/1 Knapsack problem using (a) Dynamic Programming method | CSE |

TO SERVICE STATE OF THE SERVIC

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

| Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE | 1110 |
|---|------|
| | |

| | (b) Greedy method | |
|------|---|-----|
| 706. | | |
| 700. | | CSE |
| 707 | using Dijkstra's algorithm. Write the program in Java. | |
| 707. | | CSE |
| 700 | Kruskal's algorithm. Use Union-Find algorithms in your program | |
| 708. | | CSE |
| | algorithm. | |
| 709. | 1 6 | |
| | (a) Implement All-Pairs Shortest Paths problem using Floyd's algorithm. | CSE |
| | (b) Implement Travelling Sales Person problem using Dynamic programming. | |
| 710. | Design and implement in Java to find a subset of a given set $S = \{S1, S2,,Sn\}$ of n | |
| | positive integers whose SUM is equal to a given positive integer d. For example, if S | CCE |
| | $=\{1, 2, 5, 6, 8\}$ and $d=9$, there are two solutions $\{1,2,6\}$ and $\{1,8\}$. Display a suitable | CSE |
| | message, if the given problem instance doesn't have a solution. | |
| 711. | | CCE |
| | Graph G of n vertices using backtracking principle. | CSE |
| 712. | | CSE |
| 713. | Write a program to find the sum of first 10 integer numbers. | CSE |
| 714. | | CSE |
| 715. | | CCE |
| | RAM | CSE |
| 716. | Write a program to find the square of a number (1 to 10) using look-up table. | CSE |
| 717. | | CSE |
| 718. | Write a program to arrange a series of 32 bit numbers in ascending/descending order. | CSE |
| 719. | Write a program to count the number of ones and zeros in two consecutive memory | CCE |
| | locations. | CSE |
| 720. | Display "Hello World" message using Internal UART | CSE |
| 721. | Interface and Control a DC Motor. | CSE |
| 722. | Interface a Stepper motor and rotate it in clockwise and anti-clockwise direction. | CSE |
| 723. | Determine Digital output for a given Analog input using Internal ADC of ARM | CCE |
| | controller. | CSE |
| 724. | Interface a DAC and generate Triangular and Square waveforms | CSE |
| 725. | Interface a 4x4 keyboard and display the key code on an LCD. | CSE |
| 726. | | CSE |
| 727. | Display the Hex digits 0 to F on a 7-segment LED interface, with an appropriate delay in | CCE |
| | between | CSE |
| 728. | Implement three nodes point – to – point network with duplex links between them. Set | CCE |
| | the queue size, vary the bandwidth and find the number of packets dropped. | CSE |
| 729. | Implement transmission of ping messages/trace route over a network topology consisting | CCE |
| | of 6 nodes and find the number of packets dropped due to congestion. | CSE |
| 730. | Implement an Ethernet LAN using n nodes and set multiple traffic nodes and plot | CCE |
| 750. | | CSE |
| 750. | congestion window for different source / destination. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | determine the performance with respect to transmission of packets. | |
|------|--|-----|
| 732. | Implement and study the performance of GSM on NS2/NS3 (Using MAC layer) or | |
| 7021 | equivalent environment | CSE |
| 733. | Implement and study the performance of CDMA on NS2/NS3 (Using stack called Call | ~~= |
| , | net) or equivalent environment | CSE |
| 734. | Write a program for error detecting code using CRC-CCITT (16- bits). | CSE |
| 735. | Write a program to find the shortest path between vertices using bellman-ford algorithm. | CSE |
| 736. | Using TCP/IP sockets, write a client – server program to make the client send the file | CCE |
| | name and to make the server send back the contents of the requested file if present. | CSE |
| 737. | Write a program on datagram socket for client/server to display the messages on client | CCE |
| | side, typed at the server side. | CSE |
| 738. | Write a program for simple RSA algorithm to encrypt and decrypt the data. | CSE |
| 739. | Write a program for congestion control using leaky bucket algorithm. | CSE |
| 740. | Consider the following schema for a Library Database: | |
| | BOOK(Book_id, Title, Publisher_Name, Pub_Year) | |
| | BOOK_AUTHORS(Book_id, Author_Name) | |
| | PUBLISHER(Name, Address, Phone) | |
| | BOOK_COPIES(Book_id, Programme_id, No-of_Copies) | |
| | BOOK_LENDING(Book_id, Programme_id, Card_No, Date_Out, Due_Date) | |
| | LIBRARY_PROGRAMME(Programme_id, Programme_Name, Address) | |
| | Write SQL queries to | |
| | 1. Retrieve details of all books in the library – id, title, name of publisher, authors, | CSE |
| | number of copies in each Programme, etc. | CSL |
| | 2. Get the particulars of borrowers who have borrowed more than 3 books, but from Jan | |
| | 2017 to Jun 2017. | |
| | 3. Delete a book in BOOK table. Update the contents of other tables to reflect this data | |
| | manipulation operation. | |
| | 4. Partition the BOOK table based on year of publication. Demonstrate its working with a | |
| | simple query. | |
| | 5. Create a view of all books and its number of copies that are currently available in the | |
| | Library. | |
| 741. | Consider the following schema for Order Database: | |
| | SALESMAN(Salesman_id, Name, City, Commission) | |
| | CUSTOMER(Customer_id, Cust_Name, City, Grade, Salesman_id) | |
| | ORDERS(Ord_No, Purchase_Amt, Ord_Date, Customer_id, Salesman_id) | |
| | Write SQL queries to | |
| | 1. Count the customers with grades above Bangalore's average. | CCE |
| | 2. Find the name and numbers of all salesman who had more than one customer. | CSE |
| | 3. List all the salesman and indicate those who have and don't have customers in their | |
| | cities (Use UNION operation.) | |
| | 4. Create a view that finds the salesman who has the customer with the highest order of a | |
| | day. | |
| | 5. Demonstrate the DELETE operation by removing salesman with id 1000. All his | |
| | orders must also be deleted. | |



Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics Student Centric Methods

Internships, Field work & Visits

| 742. | Consider the schema for Movie Database: | |
|------|---|-----|
| | ACTOR(Act_id, Act_Name, Act_Gender) | |
| | DIRECTOR(Dir_id, Dir_Name, Dir_Phone) | |
| | MOVIES(Mov_id, Mov_Title, Mov_Year, Mov_Lang, Dir_id) | |
| | MOVIE_CAST(Act_id, Mov_id, Role) | |
| | RATING(Mov_id, Rev_Stars) | |
| | Write SQL queries to | |
| | 1. List the titles of all movies directed by "Hitchcock". | CSE |
| | 2. Find the movie names where one or more actors acted in two or more movies. | |
| | 3. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use | |
| | JOIN operation). | |
| | 4. Find the title of movies and number of stars for each movie that has at least one rating | |
| | and find the highest number of stars that movie received. Sort the result by movie title. | |
| | 5. Update rating of all movies directed by "Steven Spielberg" to 5. | |
| 743. | Consider the schema for College Database: | |
| 743. | STUDENT(USN, SName, Address, Phone, Gender) | |
| | SEMSEC(SSID, Sem, Sec) | |
| | CLASS(USN, SSID) | |
| | | |
| | COURSE(Subcode, Title, Sem, Credits) | |
| | IAMARKS(USN, Subcode, SSID, Test1, Test2, Test3, FinalIA) | |
| | Write SQL queries to | |
| | 1. List all the student details studying in fourth semester "C" section. | |
| | 2. Compute the total number of male and female students in each semester and in each | CCE |
| | section. | CSE |
| | 3. Create a view of Test1 marks of student USN ,,1BI15CS101" in all Courses. | |
| | 4. Calculate the FinalIA (average of best two test marks) and update the corresponding | |
| | table for all students. | |
| | 5. Categorize students based on the following criterion: | |
| | If FinalIA = 17 to 20 then CAT = "Outstanding" | |
| | If FinalIA = 12 to 16 then CAT = "Average" | |
| | If FinalIA< 12 then CAT = "Weak" | |
| | Give these details only for 8th semester A, B, and C section students. | |
| 744. | Consider the schema for Company Database: | |
| | EMPLOYEE(SSN, Name, Address, Sex, Salary, SuperSSN, DNo) | |
| | DEPARTMENT(DNo, DName, MgrSSN, MgrStartDate) | |
| | DLOCATION(DNo,DLoc) | |
| | PROJECT(PNo, PName, PLocation, DNo) | |
| | WORKS_ON(SSN, PNo, Hours) | CSE |
| | Write SQL queries to | |
| | 1. Make a list of all project numbers for projects that involve an employee whose last | |
| | name is "Scott", either as a worker or as a manager of the department that controls the | |
| | project. | |
| | 2. Show the resulting salaries if every employee working on the "IoT" project is given a | |
| | Nidasoshi-591 236, Tag: Hukkeri, Dist: Belagavi, Karnataka, India. | 1 |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Academics Student Centric Methods Internships, Field work & Visits

IQAC

| | 10 percent raise. | |
|------|---|-----|
| | 3. Find the sum of the salaries of all employees of the "Accounts" department, as well as | |
| | the maximum salary, the minimum salary, and the average salary in this department | |
| | 4. Retrieve the name of each employee who works on all the projects controlled by | |
| | department number 5 (use NOT EXISTS operator). | |
| | 5. For each department that has more than five employees, retrieve the department | |
| | number and the number of its employees who are making more than Rs. 6,00,000 | |
| 745 | | |
| 745. | , 1 0 0 | |
| | expression could be only integers and operators could be + and *. Count the | CCC |
| | identifiers & operators present and print them separately. | CSE |
| | B) Write YACC program to evaluate arithmetic expression involving operators: +, -, *, and / | |
| 746. | | |
| 740. | ending with b preceded by n a's using the grammar an b (note: input n value) | CSE |
| 747. | | |
| /4/. | Parsing Table for the grammar rules: A \Box aBa, B \Box bB $ \Box$. Use this table to parse the | CSE |
| | sentence: abba\$ | CSE |
| 748. | | |
| 740. | technique for the grammar rules: $E \square E+T \mid T, T \square T*F \mid F, F \square(E) \mid$ id and parse the | |
| | sentence: id + id * id. | CSE |
| | sentence, la 1 la la. | CDL |
| | | |
| 749. | Design, develop and implement a C/Java program to generate the machine code using | |
| | Triples for the statement $A = -B * (C + D)$ whose intermediate code in three-address | |
| | form: | |
| | T1 = -B | CSE |
| | T2 = C + D | |
| | T3 = T1 + T2 | |
| | A = T3 | |
| 750. | A) Write a LEX program to eliminate comment lines in a C program and copy the | |
| | resulting program into a separate file. | CSE |
| | B) Write YACC program to recognize valid identifier, operators and keywords in the | CSL |
| | given text (C program) file | |
| 751. | Design, develop and implement a C/C++/Java program to simulate the working of | |
| | Shortest remaining time and Round Robin (RR) scheduling algorithms. Experiment with | CSE |
| | different quantum sizes for RR algorithm. | |
| 752. | Design, develop and implement a C/C++/Java program to implement Banker"s | CSE |
| | algorithm. Assume suitable input required to demonstrate the results | CDL |
| 753. | Design, develop and implement a C/C++/Java program to implement page replacement | CSE |
| _ | algorithms LRU and FIFO. Assume suitable input required to demonstrate the results | |
| 754. | Implement Brenham's line drawing algorithm for all types of slope. | CSE |
| 755. | Create and rotate a triangle about the origin and a fixed point. | CSE |
| 756. | Draw a colour cube and spin it using OpenGL transformation matrices. | CSE |

Hirasugar Institute of Technology, Nidasoshi Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

| ; | Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE |
|---|---|
|---|---|

| 757 | | |
|------|---|-----|
| 757. | Draw a color cube and allow the user to move the camera suitably to experiment with perspective viewing | CSE |
| 758. | Clip a lines using Cohen-Sutherland algorithm | CSE |
| 759. | To draw a simple shaded scene consisting of a tea pot on a table. Define suitably the position and properties of the light source along with the properties of the surfaces of the solid object used in the scene. | CSE |
| 760. | Design, develop and implement recursively subdivide a tetrahedron to form 3D sierpinski gasket. The number of recursive steps is to be specified by the user. | CSE |
| 761. | Develop a menu driven program to animate a flag using Bezier Curve algorithm | CSE |
| 762. | Develop a menu driven program to fill the polygon using scan line algorithm | CSE |
| 763. | Create an application to design a Visiting Card. The Visiting card should have a company logo at the top right corner. The company name should be displayed in Capital letters, aligned to the center. Information like the name of the employee, job title, phone number, address, email, fax and the website address is to be displayed. Insert a horizontal line between the job title and the phone number. | CSE |
| 764. | Develop an Android application using controls like Button, Text View, Edit Text for designing a calculator having basic functionality like Addition, Subtraction, Multiplication, and Division | CSE |
| 765. | Create a SIGN Up activity with Username and Password. Validation of password should happen based on the following rules: Password should contain uppercase and lowercase letters. Password should contain letters and numbers. Password should contain special characters. Minimum length of the password (the default value is 8). On successful SIGN UP proceed to the next Login activity. Here the user should SIGN IN using the Username and Password created during signup activity. If the Username and Password are matched then navigate to the next activity whichdisplays a message saying "Successful Login" or else display a toast message saying "Login Failed". The user is given only two attempts and after that display a toast message saying "Failed Login Attempts" and disable the SIGN IN button. Use Bundle to transfer information from one activity to another. | CSE |
| 766. | Develop an application to set an image as wallpaper. On click of a button, the wallpaper image should start to change randomly every 30 seconds. | CSE |
| 767. | Write a program to create an activity with two buttons START and STOP. On pressingoftheSTART button, the activity must start the counter by displaying the numbers from One and the counter must keep on counting until the STOP button is pressed. Display the counter value in a TextViewcontrol. | CSE |
| 768. | Create two files of XML and JSON type with values for City_Name, Latitude, Longitude, Temperature, and Humidity. Develop an application to create an activity with two buttons to parse the XML and JSON files which when clicked should display the data in their respective layouts side by side | CSE |
| 769. | Develop a simple application withoneEditTextso that the user can write some text in it. Create a button called "Convert Text to Speech" that converts the user input text into voice. | CSE |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | | - |
|------|--|-----|
| 770. | Create an activity like a phone dialer with CALL and SAVE buttons. On pressing the CALL button, it must call the phone number and on pressing the SAVE button it must save the number to the phone contacts. | CSE |
| 771. | Write a program to enter Medicine Name, Date and Time of the Day as input from the user and store it in the SQLite database. Input for Time of the Day should be either Morning or Afternoon or Eveningor Night. Trigger an alarm based on the Date and Time of the Day and display the Medicine Name. | CSE |
| 772. | Develop a content provider application with an activity called "Meeting Schedule" which takes Date, Time and Meeting Agenda as input from the user and store this information into the SQLite database. Create another application with an activity called "Meeting Info" having DatePicker control, which on the selection of a date should display the Meeting Agenda information for that particular date, else it should display a toast message saying "No Meeting on this Date". | CSE |
| 773. | Create an application to receive an incoming SMS which is notified to the user. On clicking this SMS notification, the message content and the number should be displayed on the screen. Use appropriate emulator control to send the SMS message to your application. | CSE |
| 774. | Write a program to create an activity having a Text box, and also Save, Open and Create buttons. The user has to write some text in the Text box. On pressing the Create button the text should be saved as a text file in MkSDcard. On subsequent changes to the text, the Save button should be pressed to store the latest content to the same file. On pressing the Open button, it should display the contents from the previously stored files in the Text box. If the user tries to save the contents in the Textbox to a file without creating it, then a toast message has to be displayed saying "First Create a File". Create an application to demonstrate a basic media playerthat allows the user to Forward, Backward, Play and Pause an audio. Also, make use of the indicator in the seek bar to move the audio forward or backward as required. | CSE |
| 775. | Develop an application to demonstrate the use of Asynchronous tasks in android. The asynchronous task should implement the functionality of a simple moving banner. On pressing the Start Task button, the banner message should scrollfrom right to left. On pressing the Stop Task button, the banner message should stop.Let the banner message be "Demonstration of Asynchronous Task". | CSE |
| 776. | Develop an application that makes use of the clipboard framework for copying and pasting of the text. The activity consists of two EditText controls and two Buttons to trigger the copy and paste functionality. | CSE |
| 777. | Create an AIDL service that calculates Car Loan EMI. The formula to calculate EMI is E = P * (r(1+r)n)/((1+r)n-1) where E = The EMI payable on the car loan amount P = The Car loan Principal Amount r = The interest rate value computed on a monthly basis n = The loan tenure in the form of months The down payment amount has to be deducted from the principal amount paid towards buying the Car. Develop an application that makes use of this AIDL service to calculate the EMI. This application should have four EditText to read the PrincipalAmount, Down | CSE |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | Payment, Interest Rate, Loan Term (in months) and a button named as "Calculate | |
|---------------------------------------|---|------------|
| | Monthly EMI". On click of this button, the result should be shown in a TextView. Also, | |
| | calculate the EMI by varying the Loan Term and Interest Rate values. | |
| 778. | Implement A* Search algorithm. | CSE |
| 779. | Implement AO* Search algorithm. | CSE |
| 780. | For a given set of training data examples stored in a .CSV file, implement and | |
| | demonstrate the Candidate-Elimination algorithm to output a description of the set of all | CSE |
| | hypotheses consistent with the training examples | |
| 781. | Write a program to demonstrate the working of the decision tree based ID3 algorithm. | |
| | Use an appropriate data set for building the decision tree and apply this knowledge to | CSE |
| | classify a new sample. | |
| 782. | Build an Artificial Neural Network by implementing the Back propagation algorithm and | CCE |
| | test the same using appropriate data sets. | CSE |
| 783. | Apply EM algorithm to cluster a set of data stored in a .CSV file. Use the same data set | |
| | for clustering using k-Means algorithm. Compare the results of these two algorithms and | CSE |
| | comment on the quality of clustering. You can add Java/Python ML library classes/API | CSE |
| | in the program. | |
| 784. | Write a program to implement k-Nearest Neigh bour algorithm to classify the iris data | |
| | set. Print both correct and wrong predictions. Java/Python ML library classes can be used | CSE |
| | for this problem. | |
| 785. | Implement the non-parametric Locally Weighted Regression algorithm in order to fit data | CSE |
| | points. Select appropriate data set for your experiment and draw graphs. | CSE |
| 786. | Practice Programs: | |
| | Calculation of Simple Interest, | |
| | • Check whether the given number is even or odd | CSE |
| | Convert string case | CSE |
| | • Check for palindrome, prime number, perfect square. | |
| | • Development of linear search algorithm Etc | |
| 787. | Simulation of a SimpleCalculator. | CSE |
| 788. | Implement Matrix multiplication and validate the rules of multiplication. | CSE |
| 789. | Compute $\sin(x)/\cos(x)$ using Taylor series approximation. Compare your result with the | CCE |
| | built-in library function. Print both the results with appropriate inferences. | CSE |
| 790. | Write functions to implement string operations such as compare, concatenate, string | CCE |
| | length. Convince the parameter passing techniques. | CSE |
| 791. | Design, Develop and Implement a menu driven Program in C for the following Array | |
| | Operations | |
| | a. Creating an Array of N Integer Elements | CCE |
| | b. Display of Array Elements with Suitable Headings | CSE |
| | c. Exit. | |
| | Support the program with functions for each of the above operations. | |
| 792. | Design, Develop and Implement a menu driven Program in C for the following Array | |
| | operations | CSE |
| | a. Inserting an Element (ELEM) at a given valid Position (POS) | CSE |
| | b. Deleting an Element at a given valid Position POS) | |
| · · · · · · · · · · · · · · · · · · · | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

IQAC

Academics
Student Centric
Methods

Internships, Field

work & Visits

| 793. | Design, Develop and Implement a menu driven Program in C for the following | |
|------|--|-----|
| | operations on STACK of Integers (Array Implementation of Stack with maximum size | |
| | MAX) | |
| | a. Push an Element on to Stack | |
| | b. Pop an Element from Stack | CSE |
| | c. Demonstrate Overflow and Underflow situations on Stack | |
| | d. Display the status of Stack | |
| | e. Exit | |
| | Support the program with appropriate functions for each of the above operations | |
| 794. | 11 1 3 11 1 | |
| | a. Evaluation of Suffix expression with single digit operands and operators: +, -, *, /, %, ^ | CSE |
| | b. Solving Tower of Hanoi problem with n disks | |
| 795. | Singly Linked List (SLL) of Integer Data | |
| | a. Create a SLL stack of N integer. | |
| | b. Display of SLL | CSE |
| | c. Linear search. Create a SLL queue of N Students Data Concatenation of two SLL of | |
| | integers. | |
| 796. | | |
| | operationson Doubly Linked List (DLL) of Professor Data with the fields: ID, Name, | |
| | Branch, Area of specialization | COL |
| | a. Create a DLL stack of N Professor's Data. | CSE |
| | b. Create a DLL queue of N Professor's Data | |
| | Display the status of DLL and count the number of nodes in it. | |
| 797. | Given an array of elements, construct a complete binary tree from this array in level order | |
| | fashion. That is, elements from left in the array will be filled in the tree level wise starting | |
| | from level 0. Ex: Input: | |
| | | |
| | $arr[] = \{1, 2, 3, 4, 5, 6\}$ | |
| | Output: Root of the following tree | COL |
| | | CSE |
| | /\ | |
| | 2 3 | |
| | /\^ | |
| | 456 | |
| | | |
| 798. | Design, Develop and Implement a menu driven Program in C for the following | |
| | operations on Binary Search Tree (BST) of Integers | CCE |
| | a. Create a BST of N Integers | CSE |
| | b. Traverse the BST in Inorder, Preorder and Post Order | |
| 799. | Design, Develop and implement a program in C for the following operations on Graph | |
| | (G) of cities | |
| | a. Create a Graph of N cities using Adjacency Matrix. | CSE |
| | b. Print all the nodes reachable from a given starting node in a diagraph using DFS/BFS | |
| | method. | |
| L | | l |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 800. | Design and develop a program in C that uses Hash Function H:K->L as H(K)=K mod | CGF |
|------|---|-----|
| | m(reminder method) and implement hashing technique to map a given key K to the | CSE |
| 001 | address space L. Resolve the collision (if any) using linear probing. | |
| 801. | Simulate BJT CE voltage divider biased voltage amplifier using any suitable circuit simulator | CSE |
| 802. | Write a java program that prints all real solutions to the quadratic equation ax2+bx+c=0. | |
| 802. | Read in a, b, c and use the quadratic formula. | CSE |
| 803. | Create a Java class called Student with the following details as variables within it. | |
| | USN | |
| | Name | |
| | Branch | CSE |
| | Phone | |
| | Write a Java program to create n Student objects and print the USN, Name, Branch, and | |
| | Phone of these objects with suitable headings | |
| 804. | A) Write a program to check prime number | CSE |
| | B) Write a program for Arithmetic calculator using switch case menu | CSE |
| 805. | Design a super class called Staff with details as StaffId, Name, Phone, Salary. Extend this | |
| | class by writing three subclasses namely Teaching (domain, publications), Technical | CSE |
| | (skills), and Contract (period). Write a Java program to read and display at least 3 staff | CDL |
| | objects of all three categories. | |
| 806. | Write a java program demonstrating Method overloading and Constructor overloading. | CSE |
| 807. | Develop a java application to implement currency converter (Dollar to INR, EURO to | |
| | INR, Yen to INR and vice versa), distance converter (meter to KM, miles to KM and vice | CSE |
| | versa), time converter (hours to minutes, seconds and vice versa) using packages. | |
| 808. | Write a program to generate the resume. Create 2 Java classes Teacher (data: personal | |
| | information, qualification, experience, achievements) and Student (data: personal | CSE |
| | information, result, discipline) which implements the java interface Resume with the | |
| 000 | method biodata(). | |
| 809. | Write a Java program that implements a multi-thread application that has three threads. | CCE |
| | First thread generates a random integer for every 1 second; second thread computes the | CSE |
| 010 | square of the number and prints; third thread will print the value of cube of the number. | |
| 810. | | CCE |
| | following a. Append - add at end b. Insert – add at particular index c. Search d. List all | CSE |
| 811. | string starts with given letter. Write a Java program to read two integers a and b. Compute a/b and print, when b is not | |
| 011. | zero. Raise an exception when b is equal to zero. | |
| | Write a java program that reads a file name from the user, displays information about | CSE |
| | whether the file exists, whether the file is readable, or writable, the type of file and the | CSL |
| | length of the file in bytes | |
| 812. | Develop an applet that displays a simple message in center of the screen. | ~~~ |
| 012. | Develop a simple calculator using Swings | CSE |
| 813. | Sort a given set of n integer elements using Selection Sort method and compute its time | |
| 010. | complexity. Run the program for varied values of n> 5000 and record the time taken to | CSE |
| | sort. Plot a graph of the time taken versus n. The elements can be read from a file or can | |
| | 1 0 1 | |

STATE OF THE PARTY OF THE PARTY

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | be generated using the random number generator. Demonstrate using C++/Java how the | |
|------|---|------------|
| | brute force method works along with its time complexity analysis: worst case, average | |
| | case and best case | |
| 814. | | CSE |
| 815. | Sort a given set of n integer elements using Merge Sort method and compute its time | |
| 010. | complexity. Run the program for varied values of n> 5000, and record the time taken to | |
| | sort. Plot a graph of the time taken versus n. The elements can be read from a file or can | |
| | be generated using the random number generator. Demonstrate using C++/Java how the | CSE |
| | divide-and-conquer method works along with its time complexity analysis: worst case, | |
| | average case and best case. | |
| 816. | j | CSE |
| - | | CSE |
| 817. | | CSE |
| 010 | graph, using Dijkstra's algorithm | |
| 818. | To find Minimum Cost Spanning Tree of a given connected undirected graph using | CSE |
| 010 | Kruskal's algorithm. Use Union-Find algorithms in your program. | |
| 819. | To find Minimum Cost Spanning Tree of a given connected undirected graph using | CSE |
| 0.00 | Prim's algorithm. | |
| 820. | Solve All-Pairs Shortest Paths problem using Floyd's algorithm. | CSE |
| 821. | Solve Travelling Sales Person problem using Dynamic programming. | CSE |
| 822. | Solve 0/1 Knapsack problem using Dynamic Programming method. | CSE |
| 823. | Design and implement C++/Java Program to find a subset of a given set $S = \{SI,$ | |
| | S2,,Sn} of n positive integers whose SUM is equal to a given positive integer d. For | CSE |
| | example, if $S = \{1, 2, 5, 6, 8\}$ and $d = 9$, there are two solutions $\{1, 2, 6\}$ and $\{1, 8\}$. | CDL |
| | Display a suitable message, if the given problem instance doesn't have a solution. | |
| 824. | Design and implement C++/Java Program to find all Hamiltonian Cycles in a connected | CSE |
| | undirected Graph G of n vertices using backtracking principle. | CSE |
| 825. | Using Keil software, observe the various registers, dump, CPSR, with a simple ALP | CSE |
| | programme. | CSE |
| 826. | A) Write a python program to find the best of two test average marks out of three test's | |
| | marks accepted from the user. | CCE |
| | B) Develop a Python program to check whether a given number is palindrome or not and | CSE |
| | also count the number of occurrences of each digit in the input number. | |
| 827. | A) Defined as a function F as $Fn = Fn-1 + Fn-2$. Write a Python program which accepts a | |
| | value for N (where N >0) as input and pass this value to the function. Display suitable | |
| | error message if the condition for input value is not followed. | CSE |
| | B) Develop a python program to convert binary to decimal, octal to hexadecimal using | |
| | functions. | |
| 828. | a) Write a Python program that accepts a sentence and find the number of words, digits, | COF |
| | uppercase letters and lowercase letters. | CSE |
| 829. | Write a Python program to find the string similarity between two given strings | COF |
| | | CSE |
| 830. | a) Write a python program to implement insertion sort and merge sort using lists | 965 |
| 323. | b) Write a program to convert roman numbers in to integer values using dictionaries. | CSE |
| 831. | a) Write a function called is phonenumber () to recognize a pattern 415-555-4242 without | CSE |
| 051. | The second state of provincial control of the second state of the | |

ESTE (3) one

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | | 1 |
|------|---|------|
| | using regular expression and also write the code to recognize the same pattern using | |
| | regular expression. | |
| | b) Develop a python program that could search the text in a file for phone numbers | |
| 832. | (+919900889977) and email addresses (sample@gmail.com) A) Write a python program to accept a file name from the user and perform the following | |
| 632. | operations | |
| | 1. Display the first N line of the file | |
| | 2. Find the frequency of occurrence of the word accepted from the user in the file | CSE |
| | B) Write a python program to create a ZIP file of a particular folder which contains | |
| | several files inside it. | |
| 833. | A) By using the concept of inheritance write a python program to find the area of | |
| 033. | triangle, circle and rectangle. | |
| | B) Write a python program by creating a class called Employee to store the details of | CSE |
| | Name, Employee_ID, Department and Salary, and implement a method to update salary | 0.22 |
| | of employees belonging to a given department. | |
| 834. | Write a python program to find the whether the given input is palindrome or not (for both | |
| 00 | string and integer) using the concept of polymorphism and inheritance. | CSE |
| 835. | A) Write a python program to download the all XKCD comics | |
| | B) Demonstrate python program to read the data from the spreadsheet and write the data | CSE |
| | in to the spreadsheet | |
| 836. | A) Write a python program to combine select pages from many PDFs | CCE |
| | B) Write a python program to fetch current weather data from the JSON file | CSE |
| 837. | Design and develop a web page to create student profile using basic html tags. | CSE |
| 838. | Design and develop a web page to create travel book for demonstrating Hyperlinks. | CSE |
| 839. | Design and develop a web page to display list of courses offered by college using Lists. | CSE |
| 840. | Design and develop a web page to create class time-table using tables. | CSE |
| 841. | Design and develop a web page to display table of content chapterwise using frames. | CSE |
| 842. | Design and develop a web page to create college website using cascading stylesheets. | CSE |
| 843. | Design and develop a javascript program to design simple calculator to perform the | CCE |
| | following operations sum, difference, product and quotient. | CSE |
| 844. | Design and develop a javascript program that calculates the squares and cubes of the | |
| | number from 0 to 10 and outputs html texts that displays the resulting values in an html | CSE |
| | table format. | |
| 845. | a. Design and develop a javascript program to display weekday name using switch case. | CSE |
| 846. | b. Design and develop a javascript program to display the numbers 1 to 4 using regular | CSE |
| | expression. | CSE |
| 847. | Develop Angular JS program that allows user to input their first name and last name and | CSE |
| | display their full name | CSE |
| 848. | Develop an Angular JS application that displays a list of shopping items. Allow users to | CSE |
| | add and remove items from the list using directives and controllers. | COL |
| 849. | Develop a simple Angular JS calculator application that can perform basic mathematical | CSE |
| | operations (addition, subtraction, multiplication, division) based on user input. | COL |
| 850. | Write an Angular JS application that can calculate factorial and compute square based on | CSE |
| | given user input. | CDL |
| | | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| 851. | Develop AngularJS application that displays a details of students and their CGPA. Allow users to read the number of students and display the count. | CSE |
|------|--|-----|
| 852. | Develop an AngularJS program to create a simple to-do list application. Allow users to add, edit, and delete tasks. | CSE |
| 853. | Write an AngularJS program to create a simple CRUD application (Create, Read, Update, and Delete) for managing users. | CSE |
| 854. | DevelopAngularJS program to create a login form, with validation for the username and password fields. | CSE |
| 855. | Create an AngularJS application that displays a list of employees and their salaries. Allow users to search for employees by name and salary. | CSE |
| 856. | Create AngularJS application that allows users to maintain a collection of items. The application should display the current total number of items, and this count should automatically update as items are added or removed. Users should be able to add items to the collection and remove them as needed. | CSE |
| 857. | Create AngularJS application to convert student details to Uppercase using angular filters. | CSE |
| 858. | Create an AngularJS application that displays the date by using date filter parameters | CSE |
| | 1 121 12231 nth row | CSE |
| 860. | Given a 4-variable logic expression, simplify it using appropriate technique and simulate the same using basic gates | CSE |
| 861. | Design a 4 bit full adder and subtractor and simulate the same using basic gates. | CSE |
| 862. | Design Verilog HDL to implement simple circuits using structural, Data flow and Behavioural model. | CSE |
| 863. | Design Verilog HDL to implement Binary Adder-Subtractor – Half and Full Adder, Half and Full Subtractor. | CSE |
| 864. | Design Verilog HDL to implement Decimal adder. | CSE |
| 865. | Design Verilog program to implement Different types of multiplexer like 2:1, 4:1 and 8:1. | CSE |
| 866. | Design Verilog program to implement types of De-Multiplexer. | CSE |
| 867. | Design Verilog program for implementing various types of Flip-Flops such as SR, JK and D. | CSE |
| 868. | Develop a c program to implement the Process system calls (fork (), exec(), wait(), create process, terminate process) | CSE |
| 869. | Simulate the following CPU scheduling algorithms to find turnaround time and waiting time a) FCFS b) SJF c) Round Robin d) Priority. | CSE |
| 870. | Develop a C program to simulate producer-consumer problem using semaphores. | CSE |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| 871. | Develop a C program which demonstrates interprocess communication between a reader | |
|------|---|----------------|
| 0,1, | process and a writer process. Use mkfifo, open, read, write and close APIs in your | CSE |
| | program. | CDL |
| 872. | | CSE |
| 873. | | CDE |
| 075. | Techniques: | CSE |
| | a) Worst fit b) Best fit c) First fit. | CDL |
| 874. | | |
| | a) FIFO b) LRU | CSE |
| 875. | Simulate following File Organization Techniques | CCE |
| | a) Single level directory b) Two level directory | CSE |
| 876. | | CSE |
| 877. | Develop a C program to simulate SCAN disk scheduling algorithm. | CSE |
| 878. | Develop a Program in C for the following: | |
| | a) Declare a calendar as an array of 7 elements (A dynamically Created array) to | |
| | represent | |
| | 7 days of a week. Each Element of the array is a structure having three fields. The first | |
| | field is the name of the Day (A dynamically allocated String), The second field is the | CSE |
| | date of the Day (A integer), the third field is the description of the activity for a | |
| | particular day (A dynamically allocated String). | |
| | b) Write functions create(), read() and display(); to create the calendar, to read the data | |
| | from the keyboard and to print weeks activity details report on screen. | |
| 879. | Develop a Program in C for the following operations on Strings. | |
| | a. Read a main String (STR), a Pattern String (PAT) and a Replace String (REP) | |
| | b. Perform Pattern Matching Operation: Find and Replace all occurrences of PAT in | |
| | STR with REP if PAT exists in STR. Report suitable messages in case PAT does not | CSE |
| | exist in STR | |
| | Support the program with functions for each of the above operations. Don't use Built-in | |
| | functions. | |
| 880. | Develop a menu driven Program in C for the following operations on STACK of Integers | |
| | (Array Implementation of Stack with maximum size MAX) | |
| | a. Push an Element on to Stack | |
| | b. Pop an Element from Stack | |
| | c. Demonstrate how Stack can be used to check Palindrome | CSE |
| | d. Demonstrate Overflow and Underflow situations on Stack | |
| | e. Display the status of Stack | |
| | f. Exit | |
| | Support the program with appropriate functions for each of the above operations | |
| 881. | | |
| | Program | |
| | should support for both parenthesized and free parenthesized | CSE |
| | expressions with the operators: +, -, *, /, % (Remainder), ^ (Power) and alphanumeric | |
| | operands. | and the second |
| 882. | Develop a Program in C for the following Stack Applications | CSE |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

Methods
Internships, Field
work & Visits

IQAC

Academics

Student Centric

| | a. Evaluation of Suffix expression with single digit operands and operators: +, -, *, /, %, | |
|------|---|-----|
| | b. Solving Tower of Hanoi problem with n disks | |
| 883. | | CSE |
| 884. | Develop a menu driven Program in C for the following operations on Singly Linked List (SLL) of Student Data with the fields: USN, Name, Programme, Sem, PhNo a. Create a SLL of N Students Data by using front insertion. b. Display the status of SLL and count the number of nodes in it c. Perform Insertion / Deletion at End of SLL d. Perform Insertion / Deletion at Front of SLL(Demonstration of stack) e. Exit | CSE |
| 885. | Develop a menu driven Program in C for the following operations on Doubly Linked List (DLL) of Employee Data with the fields: SSN, Name, Dept, Designation, Sal, PhNo a. Create a DLL of N Employees Data by using end insertion. b. Display the status of DLL and count the number of nodes in it c. Perform Insertion and Deletion at End of DLL d. Perform Insertion and Deletion at Front of DLL e. Demonstrate how this DLL can be used as Double Ended Queue. f. Exit | CSE |
| 886. | Develop a Program in C for the following operations Singly Circular Linked List (SCLL) with header nodes a. Represent and Evaluate a Polynomial $P(x,y,z) = 6x2y2z-4yz5+3x3yz+2xy5z-2xyz3$ b. Find the sum of two polynomials $POLY1(x,y,z)$ and $POLY2(x,y,z)$ and store the result in $POLYSUM(x,y,z)$ Support the program with appropriate functions for each of the above operations | CSE |
| 887. | Develop a menu driven Program in C for the following operations on Binary Search Tree (BST) of Integers . a. Create a BST of N Integers: 6, 9, 5, 2, 8, 15, 24, 14, 7, 8, 5, 2 b. Traverse the BST in Inorder, Preorder and Post Order c. Search the BST for a given element (KEY) and report the appropriate message d. Exit | CSE |
| 888. | Develop a Program in C for the following operations on Graph(G) of Cities a. Create a Graph of N cities using Adjacency Matrix. b. Print all the nodes reachable from a given starting node in a digraph using DFS/BFS | CSE |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | method | |
|------|--|------|
| 889. | Given a File of N employee records with a set K of Keys (4-digit) which uniquely | |
| | determine | |
| | the records in file F. Assume that file F is maintained in memory by a Hash Table (HT) | |
| | of m | |
| | memory locations with L as the set of memory addresses (2-digit) of locations in HT. Let | |
| | the | CSE |
| | keys in K and addresses in L are Integers. Develop a Program in C that uses Hash function H: | CSE |
| | $K \rightarrow L$ as $H(K)=K$ mod m (remainder method), and implement hashing | |
| | technique to map a given key K to the address space L. Resolve the collision (if any) | |
| | using | |
| | linear probing. | |
| 890. | Develop a C++ program to find the largest of three numbers | CSE |
| 891. | Develop a C++ program to sort the elements in ascending and descending order. | CSE |
| 892. | Develop a C++ program using classes to display student name, roll number, marks | |
| 0,2. | obtained in two subjects and total score of student | CSE |
| 893. | Develop a C++ program for a bank empolyee to print name of the employee, account_no. | |
| 0,0. | &balance.Print invalid balance if amount<500, Display the same, also display the balance | CSE |
| | after withdraw and deposit. | 0.22 |
| 894. | Develop a C++ program to demonstrate function overloading for the following | |
| | prototypes. | CSE |
| | add(int a, int b) add(double a, double b | |
| 895. | Develop a C++ program using Operator Overloading for overloading Unary minus | CCE |
| | operator. | CSE |
| 896. | Develop a C++ program to implement Multiple inheritance for performing arithmetic | CCE |
| | operation of two numbers | CSE |
| 897. | Develop a C++ program using Constructor in Derived classes to initialize alpha, beta and | CCE |
| | gamma and display corresponding values. | CSE |
| 898. | Develop a C++ program to create a text file, check file created or not, if created it will | CSE |
| | write some text into the file and then read the text from the file. | CSE |
| 899. | Develop a C++ program to write and read time in/from binary file using fstream | CSE |
| 900. | Develop a function which throws a division by zero exception and catch it in catch block. | |
| | Write a | CSE |
| | C++ program to demonstrate usage of try, catch and throw to handle exception. | |
| 901. | Develop a C++ program that handles array out of bounds exception using C++. | CSE |
| 902. | a) Write a python program to find the best of two test average marks out of three test's | |
| | marks accepted from the user. | CSE |
| | b) Develop a Python program to check whether a given number is palindrome or not and | CDE |
| | also count the number of occurrences of each digit in the input number. | |
| 903. | a) Defined as a function F as $Fn = Fn-1 + Fn-2$. Write a Python program which accepts a | |
| | value for N (where N >0) as input and pass this value to the function. Display suitable | CSE |
| | error message if the condition | CDL |
| | for input value is not followed. | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956

IQAC

Academics

Student Centric
Methods

Internships, Field
work & Visits

| | b) Develop a python program to convert binary to decimal, octal to hexadecimal using functions. | |
|------|---|-----|
| 904. | a) Write a Python program that accepts a sentence and find the number of words, digits, uppercase letters and lowercase letters.b) Write a Python program to find the string similarity between two given strings | CSE |
| 905. | a) Write a Python program to Demonstrate how to Draw a Bar Plot using Matplotlib.b) Write a Python program to Demonstrate how to Draw a Scatter Plot using Matplotlib. | CSE |
| 906. | a) Write a Python program to draw Time Series using Plotly Libraries.b) Write a Python program for creating Maps using Plotly Libraries. | CSE |
| 907. | Familiarization with computer hardware and programming environment, concept of naming the program files, storing, compilation, execution and debugging, taking any simple C – Code. | CSE |
| 908. | Develop a program to compute the roots of a quadratic equation by accepting the coefficients. (No built-in math function) | CSE |
| 909. | Develop a program to compute the roots of a quadratic equation by accepting the coefficients. Print appropriate messages. | CSE |
| 910. | Develop a program to find the reverse of a posit integer and check for PALINDROME or NOT. Display appropriate messages. Ex: Num: 2014, Reverse: 4102, Not a Palindrome. | CSE |
| 911. | An electricity board charges the following rates for the use of electricity: for the first 200 units 80 paise per unit: for the next 100 units 90 paise per unit: beyond 300 units Rs 1 per unit. All users are charged a minimum of Rs. 100 as meter charge. If the total amount is more than Rs. 400, then an additional surcharge of 15% of total amount is charged. Write a program to read the same of the user, number of units consumed and print out the charges. | CSE |
| 912. | Introduce 1 D Array manipulation and implement Binary search. | CSE |
| 913. | Implement using functions to check whether the given number is prime and display appropriate messages. (No built-in math function). | CSE |
| 914. | Develop a program to introduce 2D Array manipulation and implement Matrix multiplication and ensure the rules of manipulation are checked. | CSE |
| 915. | Develop a program to compute Sin(x) using Taylor series approximation. Compare your result with the built-in Library function. Print both the results with appropriate messages. | CSE |
| 916. | Write functions to implement string operations such as compare, concatenate, string length. Convince the parameter passing techniques. | CSE |
| 917. | Develop a program to sort the given set of N numbers using Bubble sort. | CSE |
| 918. | Develop a program to find the square root of a given number N and execute for all possible inputs with appropriate messages. Note: Don't use library function sqrt (n). | CSE |
| 919. | Implement structures to read, write and compute average marks for a class of N students. | CSE |
| 920. | Develop a program using pointers to compute the sum, mean and standard deviation of | CSE |

231 (3) 3 re

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | all elements stored in an array of n real numbers. | |
|------|---|--------------|
| 921. | Implement Recursive functions for Binary to Decimal Conversion. | CSE |
| 922. | 2D-Plots of Cartesian and Polar Curves | Mathem atics |
| 923. | Finding Angle Between Two Polar Curves, Curvature and Radius of Curvature | Mathem atics |
| 924. | Finding Partial Derivatives and Jacobian | Mathem atics |
| 925. | Taylor Series Expansion and L'Hospital's Rule | Mathem atics |
| 926. | Solution of First Order Differential Equations and Plotting the Solution Curve | Mathem atics |
| 927. | Numerical Solution of System of Equations, Test for Consistency and GraphicalRepresentation of the Solution. | Mathem atics |
| 928. | Solution of Linear Equations by Gauss-Seidel Method | Mathem atics |
| 929. | Compute Eigen Value and Corresponding Eigen Vectors, Find the Dominant Eigen Value and Corresponding Eigen Vector by Rayleigh Power Method. | Mathem atics |
| 930. | Finding GCD Using Euclid's Algorithm | Mathem atics |
| 931. | Solve Linear Congruence of the Form $ax \equiv b \pmod{n}$ | Mathem atics |
| 932. | Progamme to Compute Area, Volume and Center of Gravity | Mathem atics |
| 933. | Evaluation of Improper Integrals | Mathem atics |
| 934. | Solution of Second Order Ordinary Differential Equation and Plotting the Solution Curve | Mathem atics |
| 935. | Solution of Differential Equation of Oscillations of Spring with Various Load | Mathem atics |
| 936. | | |
| 937. | Finding gradient, divergent, curl and their geometrical interpretation and Verification of Green's theorem | Mathem atics |
| 938. | | Mathem atics |
| 939. | Interpolation /Extrapolation using Newton's forward and backward difference formula | Mathem atics |
| 940. | Computation of area under the curve using Trapezoidal, Simpson's 1/3 rd rule and 3/8 th rule | Mathem atics |
| 941. | Solution of ODE of first order and first degree by Taylor's series and Modified Euler's method | Mathem atics |
| 942. | Solution of ODE of first order and first degree by Runge-Kutta 4th order method and Milne's predictor and corrector method | Mathem atics |
| | Nidasoshi-591 236 Tag: Hukkeri Dist: Belagayi Karnataka India | |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| 943. | Programme to compute area, volume and center of gravity. | Mathem |
|-----------|--|------------|
| | | atics |
| 944. | Evaluation of improper integrals, Beta and Gamma functions. | Mathem |
| | 2 variation of improper integrals , Beta and Gamma ranetions. | atics |
| 945. | Computation of basis and dimension for a vector space and graphical representation of | Mathem |
| | linear transformation | atics |
| 946. | Computing the inner product and Orthogonality | Mathem |
| | compating the inner product and orthogonality | atics |
| 947. | Verification of Green's theorem | Mathem |
| | Vermoution of Green's meetern | atics |
| 948. | Solution of Lagrange's linear partial differential equations | Mathem |
| | Solution of Eugrange's initial partial affectivities equations | atics |
| 949. | Computation of basis and dimension for a vector space and graphical representation of | Mathem |
| | linear transformation | atics |
| 950. | Visualization in time and frequency domain of standard functions | Mathem |
| | visualization in time and requestey domain or standard resocions | atics |
| 951. | Computing Laplace transform and inverse Laplace transform of standard functions | Mathem |
| | Compacing Euplace transform and inverse Euplace transform of standard functions | atics |
| 952. | Laplace transform of convolution of two functions | Mathem |
| | Laplace transform of convolution of two functions | atics |
| 953. | Determination of wavelength of LASER using Diffraction Grating. | Physics |
| 954. | Determination of acceptance angle and numerical aperture of the given Optical Fiber. | Physics |
| 955. | Determination of Magnetic Flux Density at any point along the axis of a circular coil. | Physics |
| 956. | Study the I-V Characteristics of the Given Bipolar Junction Transistor. | Physics |
| 957. | Determination of dielectric constant of the material of capacitor by Charging and | Physics |
| | Discharging method. | <i>J</i> |
| 958. | Study the Characteristics of a Photo-Diode and to determine the power responsivity / | Physics |
| | Verification of Inverse Square Law of Intensity of Light. | |
| 959. | Study the frequency response of Series & Parallel LCR circuits. | Physics |
| 960. | Determination of Planck's Constant using LEDs. | Physics |
| 961. | Determination of Fermi Energy of Copper. | Physics |
| | Determination of Energy gap of the given Semiconductor. | Physics |
| 963. | Determination of Young's modulus of the material of the given bar Uniform Bending. | Physics |
| 964. | Determination of Rigidity modulus of the Material of the wire using Torsional | Physics |
| , , , , | Pendulum. | 1 11 51 51 |
| 965. | Study of Forced Mechanical Oscillations and Resonance. | Physics |
| 966. | Determination of effective spring constant of the given springs in series and parallel | Physics |
| , 500. | combinations. | |
| 967. | Determination of Young's modulus of the material of the given bar Single Cantilever. | Physics |
| 968. | Determination of the Moment of Inertia of the given irregular body using torsional | Physics |
| 700. | pendulum. | 111,5105 |
| 969. | Determination of the Radius of Curvature of the given Plano Convex Lens by setting | Physics |
| , , , , , | Newton's Rings. | 11175105 |
| 970. | Estimation of total hardness of water by EDTA method. | Chemist |
| 710. | Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India. | Chemist |

231 (3) 3 re

S J P N Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | | ry |
|------|--|---------------|
| 971. | Conductometric estimation of acids in acid mixture. | Chemist ry |
| 972. | Potentiometric estimation of FAS using K ₂ Cr ₂ O ₇ | Chemist ry |
| 973. | Determination of pKa of vinegar using pH sensor(Glass electrode). | Chemist ry |
| 974. | Estimation of iron in TMT bar by external indicator method. | Chemist ry |
| 975. | Estimation of Copper present in electroplating effluent by optical sensor. | Chemist ry |
| 976. | Determination of Viscosity coefficient of lubricant using Ostwald's Viscometer. | Chemist |
| 977. | Determination of Chemical oxygen demand of industrial waste water sample. | Chemist |
| 978. | Synthesis of iron oxide nano particles. | Chemist ry |
| 979. | Determination of strength of an acid in Pb-acid. | Chemist |
| 980. | Electrolysis of Water Experiment | Chemist |
| 981. | Synthesis of polyurethane | Chemist |
| 982. | Construction of photovoltaic cell | Chemist |
| 983. | Design an experiment to identify the presence of proteins in given sample | Chemist |
| 984. | Electroless plating of Nickel on Copper | Chemist ry |
| 985. | Synthesis of polyaniline and its conductivity measurement | Chemist |
| 986. | Electroplating of desired metal on substrate | Chemist |
| 987. | Synthesis of biodiesel | Chemist |
| 988. | Analysis of cement for its components | Chemist ry |
| 989. | C Program to find Mechanical Energy of a particle using the formula $E = m \times g \times h + \frac{1}{2}(mv^2)$ | EEE |
| 990. | C Program to convert Kilometers into Meters and Centimeters. | EEE |
| 991. | C Program To Check the Given Character is Lowercase or Uppercase or Special Character. | EEE |
| 992. | Program to balance the given Chemical Equation values x, y, p, q of a simple chemical equation of the type: The task is to find the values of constants b1, b2, b3 such that the | EEE |

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE

| | equation is balanced on both sides and it must be the reduced form. Generic Chemical | |
|--------------------------|---|------------|
| 993. | Equation Form $b_1 * A_x + b_2 * B_y \Rightarrow b_3(A_pB_q)$ Implement Matrix multiplication and validate the rules of multiplication. | EEE |
| 994. | Compute $\sin(x)/\cos(x)$ using Taylor series approximation. Compare your result | |
| <i>))</i> , , | with the built-in library function. Print both the results with appropriate inferences. | EEE |
| 995. | Sort the given set of N numbers using Bubble sort. | EEE |
| 996. | Write functions to implement string operations such as compare, concatenate, string | |
| | length. | EEE |
| | Convince the parameter passing techniques. | |
| 997. | Implement structures to read, write and compute average- marks and the students | EEE |
| | scoringabove and below the average marks for a class of N students. | EEE |
| 998. | Develop a program using pointers to compute the sum, mean and standard deviation | EEE |
| | of allelements stored in an array of N real numbers. | EEE |
| 999. | Familiarization with computer hardware and programming environment, concept of naming the program files, storing, compilation, execution and debugging, taking any simple C – Code. | CSE |
| 1000 | Develop a program to compute the roots of a quadratic equation by accepting the coefficients. (No built-in math function) | CSE |
| 1001 | Develop a program to compute the roots of a quadratic equation by accepting the coefficients. Print appropriate messages. | CSE |
| 1002 | Develop a program to find the reverse of a posit integer and check for PALINDROME or NOT. Display appropriate messages. Ex: Num: 2014, Reverse: 4102, Not a Palindrome. | CSE |
| 1003 | An electricity board charges the following rates for the use of electricity: for the first 200 units 80 paise per unit: for the next 100 units 90 paise per unit: beyond 300 units Rs 1 per unit. All users are charged a minimum of Rs. 100 as meter charge. If the total amount is more than Rs. 400, then an additional surcharge of 15% of total amount is charged. Write a program to read the same of the user, number of units consumed and print out the charges. | CSE |
| 1004 | Introduce 1 D Array manipulation and implement Binary search. | CSE |
| | Implement using functions to check whether the given number is prime and display appropriate messages. (No built-in math function). | CSE |
| 1006 | Develop a program to introduce 2D Array manipulation and implement Matrix multiplication and ensure the rules of manipulation are checked. | CSE |
| 1007 | Develop a program to compute Sin(x) using Taylor series approximation. Compare your result with the built-in Library function. Print both the results with appropriate messages. | CSE |
| | | |
| 1008 | Write functions to implement string operations such as compare, concatenate, string length. Convince the parameter passing techniques. | CSE |
| | Write functions to implement string operations such as compare, concatenate, string length. Convince the parameter passing techniques. Develop a program to sort the given set of N numbers using Bubble sort. | CSE CSE |

0000

SJPN Trust's

Hirasugar Institute of Technology, Nidasoshi

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under2(f) &12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &Programmes Accredited by NBA: CSE &ECE IQAC
Academics
Student Centric
Methods
Internships, Field
work & Visits

| Implement structures to read, write and compute average marks for a class of N students. | CSE |
|--|--|
| Develop a program using pointers to compute the sum, mean and standard deviation of all elements stored in an array of n real numbers. | CSE |
| Implement Recursive functions for Binary to Decimal Conversion. | CSE |
| CAED | |
| Orthographic Projections of Points | ME |
| Orthographic Projections of Lines | ME |
| Orthographic Projections of Planes | ME |
| Orthographic Projections of Solids | ME |
| Conversion of Orthographic Projections to Isometric Projections | ME |
| Conversion of Isometric Projections to Orthographic Projections | ME |
| Development of Lateral Surfaces | ME |
| | Develop a program using pointers to compute the sum, mean and standard deviation of all elements stored in an array of n real numbers. Implement Recursive functions for Binary to Decimal Conversion. CAED Orthographic Projections of Points Orthographic Projections of Lines Orthographic Projections of Planes Orthographic Projections of Solids Conversion of Orthographic Projections to Isometric Projections Conversion of Isometric Projections to Orthographic Projections |

Dr.S.N.Topannavar
IQAC Coordinatorator
Hirasugar Institute of Technology
Nidasoshi-591236



Dr.S.C.Kamate
PRINCIPAL
Hirasugar Institute of Technology
Nidasoshi-591 236