



HOD MECH &lt;hod.mech@hsit.ac.in&gt;

## Consolidated Feedback & Suggestions towards the draft VTU 2021 Scheme and Syllabus for 3rd-8th Semesters of Mechanical Engineering UG Program in line with NEP-2020

3 messages

HOD MECH &lt;hod.mech@hsit.ac.in&gt;

To: Vadiraj Katti &lt;katti.vadiraj@gmail.com&gt;

Tue, Jan 18, 2022 at 6:19 PM

Cc: sntopannavar@gmail.com, "S.N Topannavar" &lt;sntopannavar.mech@hsit.ac.in&gt;

Respected BoS Chairman Sir,

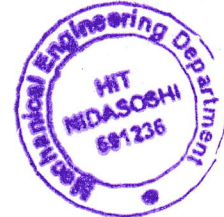
Thanks for giving us an opportunity and it is our pleasure to participate in the curriculum design of the 2021 scheme of study for 3<sup>rd</sup>-8<sup>th</sup> sem UG Mechanical Engineering.

### References:

1. Invitation from Dr.Vadiraj Katti, Chairman, Board of Studies (BoS), Mechanical Engineering, VTU Belagavi to give feedback and suggestions towards draft VTU 2021 scheme of study for 3<sup>rd</sup> – 8<sup>th</sup> semesters of Mechanical Engineering UG program in line with NEP-2020 through WhatsApp message and telephonic discussions.
2. Responses from HSIT-Mechanical Engineering Department staff, alumni & students

With reference to the above cited Reference No.1, feedbacks & suggestions towards draft scheme of study have been categorized into 4 broad categories as below:

- a. Inclusion of multi disciplinary Skill sets & competencies
- b. Curriculum Structure & flow
- c. General Suggestions & feedbacks
- d. Curriculum content



The HSIT-Mechanical Engineering Department staff are invited to give feedback & suggestions towards the 2021 scheme of study and also discussed with alumni and students. Based on the thorough discussions in the HOD Meeting-23 conducted on 7<sup>th</sup> January 2022, the feedbacks & suggestions are consolidated as below:

### a. Inclusion of multi disciplinary skill sets & competencies:

S.N.	Suggestions & Feedbacks
1	Draft No.3: Development of smart materials and manufacturing capabilities for relevant industries and society at large.
2	Draft No.5: Design & development of green power producing machines and processes with the help of multidisciplinary soft tools and electronic circuit design & coding
3	Draft No.6: Concepts of AR, VR, electronic circuit design & coding and Block chain Technology in realizing & analyzing Mechanical systems
4	New addition: Abilities to analyze and solve complex mechanical engineering problems with the help of multidisciplinary knowledge & skill sets.
5	New addition: Ability to design & development of multidisciplinary ideas, projects & products with the help of multidisciplinary knowledge & skill sets

### b. Curriculum Structure & flow:

S.N.	Suggestions & Feedbacks
1	One internship during the vacation gap between the semesters 5 <sup>th</sup> & 6 <sup>th</sup> or 6 <sup>th</sup> & 7 <sup>th</sup> .
2	Internship after completion of study of all courses and declaring graduation after successful internship ( Ref: Medical Education)
3	Learning Pattern & flow: 2 <sup>nd</sup> Year: 80%-IPCC, PCC,BSC & HSMC and 20%-Lab support 3 <sup>rd</sup> Year: 40%-IPCC,PCC, OE & PE, 30%-AEC of Multidisciplinary and 30%-AEC labs, Projects & Activities 4 <sup>th</sup> Year: 30%-IPCC,PCC, OE & PE, 20%-AEC of Multidisciplinary, 40%-Idea Incubation, Design & Development of Project & Product and 10%-Internship
4	Study of theory & supporting labs in the same semester.
5	Inclusion of self learning curriculum during graduation



6	Space for Bridge courses if situation demands
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**c. General Suggestions & Feedbacks:**

S.N.	Suggestions & Feedbacks
1	Attractive & relevant titles of the courses in the 2021 scheme of study
2	At least one 100% industry collaborative curriculum during pre-final year or final year study.
3	Maths lab to resolve complex engineering problems
4	Inclusion of up to 30% advanced and relevant content in the IPCC and PCC
5	Career centric curriculum with teacher as trainer
6	Facilitating & Establishing industry attached R & D laboratories
7	Competitive rubrics for labs and activities
8	Consideration of Curriculum delivery parameters: Competency, Preparation, Methodology, Completion in time etc.

**d. Curriculum Content:**

S.N.	Suggestions & Feedbacks
1	Inclusion of relevant content of Applied Thermodynamics & Turbo machines & related lab content in the 2021 Scheme.
2	Integrating of UHV and HSMC courses
3	Inclusion of multidisciplinary PE courses such as Supply Chain Management, Auidino Coding, Aerodynamics software (CFD), PLC & SCADA etc.
4	Study of interdisciplinary smart materials and their engineering applications

We kindly request you to consider the above suggestions and feedback to design the 2021 scheme curriculum.

With regards:

Dr.S.N.Topannavar

Dean (Research & Development)

Professor & Head, Mech. Engg. Dept.

VTU-BoE Member Mech. Engg. Board (AY:2021-22)

With Regards...

**Dr. S. N. Topannavar** M.Tech., Ph.D.

Dean Research & Development and Professor & Head

Mechanical Engineering Department

Hirasugar Institute of Technology

Pin Code: 591236, Karnataka, India

Cell: 9482440235, Mail: [hod.mech@hsit.ac.in](mailto:hod.mech@hsit.ac.in)

Web; [www.hsit.ac.in](http://www.hsit.ac.in)

Phone: +91-8333-278887, Fax: 278886

Vadiraj Katti <[katti.vadiraj@gmail.com](mailto:katti.vadiraj@gmail.com)>  
To: HOD MECH <[hod.mech@hsit.ac.in](mailto:hod.mech@hsit.ac.in)>

Wed, Jan 19, 2022 at 10:16 AM

Dear Dr Topannavar,

Thanks for sharing detailed feedback.

We will consider the suggestions positively while editing scheme.

Once again thank you for the support extended.

Regards

[Quoted text hidden]

HOD MECH <[hod.mech@hsit.ac.in](mailto:hod.mech@hsit.ac.in)>  
To: Vadiraj Katti <[katti.vadiraj@gmail.com](mailto:katti.vadiraj@gmail.com)>

Wed, Jan 19, 2022 at 10:55 AM

Thank you sir, it's my pleasure.

[Quoted text hidden]



**HOD**  
**Mechanical Engg.**  
**HIT, Nidasoshi**





## Invitation to give your Feedback & Suggestions towards the draft VTU 2021 Curriculum for 3rd – 8th Semesters of Mech. Engg. UG Program in line with NEP-2020

1 message

**HOD MECH** <hod.mech@hsit.ac.in>  
To: MECH Staff <mech@hsit.ac.in>  
Cc: "Dr.S.C.Kamate Principal,HIT, Nidasoshi(Belagavi)" <principal@hsit.ac.in>

Sun, Jan 2, 2022 at 11:25 AM

Dear Sirs,

With reference to the above cited subject and invitation from Dr.Vadiraj Katti, Chairman, Board of Studies (BoS), Mech. Engg., VTU Belagavi, the feedbacks & suggestions towards draft scheme of study have been categorized into 4 broad categories as below:

- Inclusion of multi disciplinary Skill sets & competencies
- Curriculum Structure & flow
- General Suggestions & feedbacks
- Curriculum content

Hence you are invited to give your valuable feedback & suggestions towards the 2021 scheme of study on or before 5th JAN, 2022, 10:00am and the same will be discussed in the forthcoming HOD Meeting-23 to be conducted to consolidate the feedback & suggestions.

You are informed to attend the HoD Meeting-23 along with your duly signed hard copies of feedback and suggestions.

The consolidated feedback and suggestions will be communicated to the Chairman, BoS, ME, VTU Belagavi for further development of the curriculum.

Please find the attachments of the draft VTU 2021 curriculum for 3rd – 8th Semesters of Mech. Engg. UG Program in line with NEP-2020.

Feel free to contact me for any clarifications and you are requested to participate in all 4 categories.

Thanking you with anticipation.

With Regards...

**Dr. S. N. Topannavar** M.Tech., Ph.D.

Research & Development and Professor & Head

Mechanical Engineering Department

Hirasugar Institute of Technology

Pin Code: 591236, Karnataka, India

Cell: 9482440235, Mail: [hod.mech@hsit.ac.in](mailto:hod.mech@hsit.ac.in)

Web; [www.hsit.ac.in](http://www.hsit.ac.in)

Phone: +91-8333-278887, Fax: 278886



**HOD  
Mechanical Engg.  
HIT, Nidasoshi**

2 attachments

consolidated 3-8sem ME scheme.docx  
21K

SCHEME 3-8 sem MECH ENGG.docx  
79K



**Third Semester**

Draft Structure of VTU curriculum in line with NEP 2020

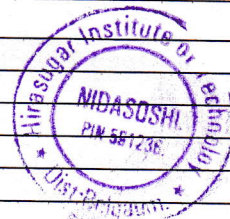
21MAT31	Mathematics Course (Common to all)
21MAT32	Metal casting, Forming and Joining Processes
21ME33	Material Science and Engineering
21ME34	Thermodynamics
21MEL35	Machine Drawing
21INT36	Summer Internship-I
21KSK37	Samskrutika Kannada
21KBK37	Balake Kannada
Or	
21CIP37	Constitution of India & Professional Ethics
21ME38x	Ability Enhancement Course-III
21UH39	Social Connect And Responsibility
<b>Ability Enhancement Courses-III</b>	
21ME381	Introduction to PYTHON
21ME382	Fundamentals of Virtual Reality APP Development
21ME383	Excel for Engineers
21ME384	Sensors and Actuators
21ME385	Tools in Scientific Computing

**Fourth Semester**

21ME41	Operations Research
21ME42	Machining Science and Jigs & Fixtures
21ME43	Fluid Mechanics
21ME44	Mechanics of Materials
21BE45	Biology For Engineers
21MEL46	Mechanical Measurements and Metrology Lab
21KSK47/21KBK47	Samskrutika Kannada/Balake Kannada
Or	
21CIP47	Constitution of India & Professional Ethics
21ME48X	Ability Enhancement Course- IV
21UH49	Universal Human Values & Professional Ethics
<b>Ability Enhancement Courses-IV</b>	
21ME481	Introduction to AI and ML
21ME482	Economics for Engineers
21ME483	Introduction to Data Analytics
21ME484	Introduction to IOT
21ME485	Introduction to Uncertainty Analysis and Experimentation

**Fifth Semester**

21ME51	Theory of Machines
21ME52	Thermo-fluids Engineering
21ME53	Computer Integrated Manufacturing
21ME54	Modern Mobility and Automotive Mechanics
21MEL55	Design lab
21XX56	Research Methodology & Intellectual Property Rights
21INT57	Summer Internship-II
21CIV58	Environmental Studies

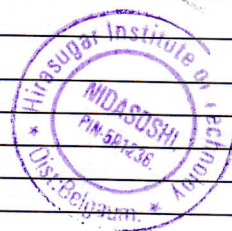


DOR



## Sixth Semester

21ME61	Production and Operations Management
21ME62	Heat Transfer
21ME63	Machine design
21ME64x	Professional Elective Course-I
21ME65x	Open Elective Course-I
21MEL66	Computer Aided Modeling and FEA Lab
21MEM67	Mini Project
21ME68X	Ability Enhancement Course-V
<b>Ability Enhancement Courses-V</b>	
21ME681	Basics of MAT LAB
21ME682	PYTHON for Data science
21ME683	Leadership
21ME684	QC Problem Solving
21ME685	Reverse Engineering



Professional Elective Courses-I		Open Elective Courses-I	
Subject Code	Title	Subject Code	Title
21ME641	Introduction to Project and Finance Management	21ME651	Mechatronics application in Manufacturing
21ME642	Smart Manufacturing	21ME652	Industrial Automation
21ME643	Mechatronic System Design	21ME653	Value Engineering and Life cycle costing
21ME644	Mechanical Vibrations and control	21ME654	Project Management
21ME645	Power Plant Technology	21ME655	Supply Chain Management
21ME646	Theory of Elasticity		

## Seventh and Eighth Semester

VII		VIII	
21ME71	Automation and Robotics	21XXS81	Technical Seminar
21ME72X	Professional elective Course-II	21INT82	Research/Industry Internship*
21ME73X	Professional elective Course-III		
21ME74X	Open elective Course-II		
21MEP75	Project work		
21ME76X	Ability Enhancement Course -VI (Online)		

Professional Elective Courses-II		Professional Elective Courses-III	
Subject Code	Title	Subject Code	Title
21ME721	Refrigeration and Air conditioning	21ME731	Product Design and Ergonomics
21ME722	Additive Manufacturing	21ME732	Computational Fluid Dynamics
21ME723	Renewable Energy Engg	21ME733	Composite Material Technology
21ME724	MEMS and Microsystem Technology	21ME734	TQM
21ME725	Design for Manufacturing and Assembly	21ME735	Digital Fabrication
21ME726	Theory of Plasticity	21ME736	Theory and Design of IC Engines

Open Elective II		Ability Enhancement course VI	
Subject Code	Title	Subject Code	Title
21ME741	Non-traditional Machining	21ME761	Augment Reality and WEB Design
21ME742	Smart Materials and Intelligent system Design	21ME762	Personal Finance
21ME743	Hydraulics and Pneumatics	21ME763	Python for AI and Development of Project
21ME744	Industrial Safety	21ME764	Basics of Digital Marketing
21ME745	Course on NCC	21ME765	Autonomous Vehicles



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1 message

HOD MECH &lt;hod.mech@hsit.ac.in&gt;

Sun, Jan 16, 2022 at 1:17 PM

To: MECH Staff &lt;mech@hsit.ac.in&gt;, babasabbag@gmail.com

Cc: "Dr.S.C.Kamate Principal,HIT, Nidasoshi(Belagavi)" &lt;principal@hsit.ac.in&gt;

Dear Sirs,

With reference to the subject, the below information will be communicated to the Chairman, BoS (Mech. Engg. Board), VTU Belagavi and Registrar, VTU Belagavi by e-mail.

Feel free to express your opinion on or before 17th Jan, 2022, 3:30pm.

#Draft e-mail start#

Respected Sirs,

Thanks for giving us an opportunity and it is our pleasure to participate in the curriculum design of 2021 scheme of study for 3<sup>rd</sup>-8<sup>th</sup> sem UG Mechanical Engineering.

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We kindly request you to consider the above suggestions and feedback to design the 2021 scheme curriculum.

With regards:

Dr.S.N.Topannavar  
Dean (Research & Development)  
Professor & Head, Mech. Engg. Dept.  
VTU-BoE Member Mech. Engg. Board (AY:2021-22)

#Draft e-mail ends#

Thanking you with anticipation.

*With Regards...*

**Dr. S. N. Topannavar** M.Tech., Ph.D.

Dean Research & Development and Professor & Head

Mechanical Engineering Department

Hirasugar Institute of Technology

Pin Code: 591236, Karnataka, India

Cell: 9482440235, Mail: [hod.mech@hsit.ac.in](mailto:hod.mech@hsit.ac.in)

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Phone: +91-8333-278887, Fax: 278886



*[Signature]*  
HOD  
Mechanical Engg.  
MIT, Nidasoshi





S J P N Trust's  
Hirasugar Institute of Technology, Nidasoshi.  
Approved by AICTE, Recognized by Govt. of Karnataka, Affiliated to VTU Belagavi  
Accredited at 'A' Grade by NAAC  
Programmes Accredited by NBA: CSE, ECE, EEE & ME.

Mech. Engg. Dept.
HOD Meeting
Circular
AY:2021-22

ME/AY-2021-22/HOD/Meeting-Circular/23

Date: 07/01/2022

## CIRCULAR OF MEETING-23

All the staff members are hereby informed to attend the meeting in the Seminar hall/HOD chamber on 7<sup>th</sup> January 2022 at 02:30 PM to discuss the following agenda.

1. Dissemination of BOSCH Trainers Training on "Nation Building Attitude & Behaviors" by Dr.S.N.Topannavar
2. Feedback discussion on VTU 2021 Draft Scheme & Syllabus
3. Extra Classes for 5<sup>th</sup> and 7<sup>th</sup> Semester students
4. Make-up & Remedial Classes for 3<sup>rd</sup> Semester students
5. Mentoring-Counseling-Grievance (Regular & Extended)
6. Revision of CISCs and STTs for the AY:2021-22
7. Ensuring 2<sup>nd</sup> Dose of Vaccination
8. Revision of Work load & 5<sup>th</sup> Semester Time Table
9. GATE-2022 Coaching, Soft Skills & Vocational Trainings
10. New Year-2022 Visions & Targets
11. Plan of Action for NBA Compliance Report Submission & Visit
12. CIE rubrics for 2021 1<sup>st</sup> year EME & I&DT subjects
13. Submission of KSCST project proposals under SPP & FPP schemes
14. Any Other matters with the permission of chair

Circulated to:

S.N.	Staff	Signature
1	Dr. K. M. Akkoli	
2	Prof. D. N. Inamdar	
3	Prof. M.S. Futane	
4	Prof. S.A. Goudadi	
5	Prof. M. M. Shivashimpi	
6	Prof. M.A. Hipparagi	
7	Prof. M.I. Tanodi	
8	Prof. B.M. Dodamani	
9	Sri. V.G.Badiger	
10	Sri.A.B.Sankeshwari	

Dr.S.N.Topannavar

HOD  
Mechanical Engg.  
HIT, Nidasoshi







S J P N Trust's  
**Hirasugar Institute of Technology, Nidasoshi**  
 Approved by AICTE, Recognized by Govt. of Karnataka and Affiliated to VTU Belagavi.  
 Accredited at 'A' Grade by NAAC  
 Programmes Accredited by NBA: CSE, ECE, EEE & ME.

**Mech. Engg. Dept.**  
**HOD Meeting**  
**Proceedings**  
**AY:2021-22**

ME/AY 2021-22/HOD/Meeting-Proceeding/23

Date: 07/01/2022

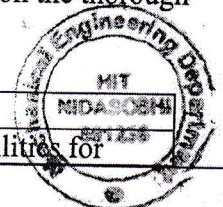
## PROCEEDINGS OF MEETING-23

A meeting of all staff members has been conducted on 07/01/2022 at 02:30 PM in HOD chamber & Seminar hall and discussed on the following:

1. Dissemination of BOSCH Trainers Training on "Nation Building Attitude & Behaviors" by Dr.S.N.Topannavar
2. Feedback discussion on VTU 2021 Draft Scheme & Syllabus
3. Extra Classes for 5<sup>th</sup> and 7<sup>th</sup> Semester students
4. Make-up & Remedial Classes for 3<sup>rd</sup> Semester students
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12. CIE rubrics for 2021 1<sup>st</sup> year EME & I&DT subjects
13. Submission of KSCST project proposals under SPP & FPP schemes
14. Any Other matters with the permission of chair

All the staff members are discussed thoroughly and collectively on the above said agenda and accepted unanimously for the following proceedings:

S. N.	Proceedings				
1	Dr.S.N.Topannavar disseminated the important content of BOSCH Trainers-Training on "Nation Building Attitude & Behaviors" and collected the takeaways and key learnings/practices to be inculcate from all staff members.				
2	<p>References:</p> <ol style="list-style-type: none"> <li>1. Invitation from Dr.Vadiraj Katti, Chairman, Board of Studies (BoS), Mechanical Engineering, VTU Belagavi to give feedback and suggestions towards draft 2021 scheme of study for 3<sup>rd</sup> – 8<sup>th</sup> semesters of Mechanical Engineering UG program in line with NEP-2020 through whatsapp message and telephonic discussions.</li> <li>2. Responses from HSIT-Mechanical Engineering Department staff, alumni &amp; students</li> </ol> <p>With reference to the above cited Reference No.1, feedbacks &amp; suggestions towards draft scheme of study have been categorized into 4 broad categories as below:</p> <ol style="list-style-type: none"> <li>a. Inclusion of multi-disciplinary Skill sets &amp; competencies</li> <li>b. Curriculum Structure &amp; flow</li> <li>c. General Suggestions &amp; feedbacks</li> <li>d. Curriculum content</li> </ol> <p>The HSIT-Mechanical Engineering Department staff are invited to give feedback &amp; suggestions towards 2021 scheme of study and also discussed with alumni and students. Based on the thorough discussions, the feedbacks &amp; suggestions are consolidated as below:</p> <ol style="list-style-type: none"> <li>a. <b>Inclusion of multi-disciplinary skill sets &amp; competencies:</b></li> </ol> <table border="1" style="width: 100%;"> <thead> <tr> <th>S.N.</th><th>Suggestions &amp; Feedbacks</th></tr> </thead> <tbody> <tr> <td>1</td><td>Draft No.3: Development of smart materials and manufacturing capabilities for</td></tr> </tbody> </table>	S.N.	Suggestions & Feedbacks	1	Draft No.3: Development of smart materials and manufacturing capabilities for
S.N.	Suggestions & Feedbacks				
1	Draft No.3: Development of smart materials and manufacturing capabilities for				



Nidasoshi, Taq: Hukkeri, Dist: Belgaum, Karnataka - 591 236

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	relevant industries and society at large.
2	Draft No.5: Design & development of green power producing machines and processes with the help of multidisciplinary soft tools and electronic circuit design & coding
3	Draft No.6: Concepts of AR, VR, electronic circuit design & coding and Block chain Technology in realizing & analyzing Mechanical systems
4	New addition: Abilities to analyze and solve complex mechanical engineering problems with the help of multidisciplinary knowledge & skill sets.
5	New addition: Ability to design & development of multidisciplinary ideas, projects & products with the help of multidisciplinary knowledge & skill sets

**b. Curriculum Structure & flow:**

S.N.	Suggestions & Feedbacks
1	One internship during vacation gap between the semesters 5 <sup>th</sup> & 6 <sup>th</sup> or 6 <sup>th</sup> & 7 <sup>th</sup> .
2	Internship after completion of study of all courses and declaring graduation after successful internship (Ref: Medical Education)
3	Learning Pattern & flow: 2 <sup>nd</sup> Year: 80%-IPCC, PCC, BSC & HSMC and 20%-Lab support 3 <sup>rd</sup> Year: 40%-IPCC, PCC, OE & PE, 30%-AEC of Multidisciplinary and 30%-AEC labs, Projects & Activities 4 <sup>th</sup> Year: 30%-IPCC, PCC, OE & PE, 20%-AEC of Multidisciplinary, 40%-Idea Incubation, Design & Development of Project (10% sponsored projects from industry) & Product and 10%-Internship
4	Study of theory & supporting labs in the same semester.
5	Inclusion of self-learning curriculum during graduation
6	Space for Bridge courses if situation demands

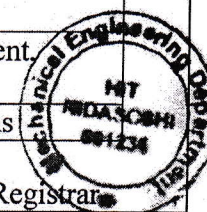
**c. General Suggestions & Feedbacks:**

S.N.	Suggestions & Feedbacks
1	Attractive & relevant titles of the courses in the 2021 scheme of study
2	At least one 100% industry collaborative curriculum during pre-final year or final year study.
3	Maths lab to resolve complex engineering problems
4	Inclusion of up to 30% advanced and relevant content in the IPCC and PCC
5	Career centric curriculum with teacher as trainer
6	Facilitating & Establishing industry attached R & D laboratories
7	Competitive rubrics for labs and activities
8	Consideration of Curriculum delivery parameters: Competency, Preparation, Methodology, Completion in time etc.

**d. Curriculum Content:**

S.N.	Suggestions & Feedbacks
1	Inclusion of relevant & career related content of subjects such as Applied Thermodynamics & Turbo machines & related labs in the 2021 Scheme.
2	Integrating of UHV and HSMC courses
3	Inclusion of multidisciplinary PE courses such as Supply Chain Management, Arduino Coding, Aerodynamics software (CFD), PLC & SCADA etc.
4	Study of interdisciplinary smart materials and their engineering applications

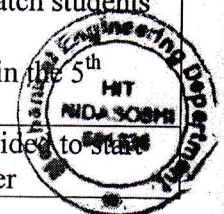
It is decided to communicate the above consolidated suggestions and feedbacks to the Registrar.



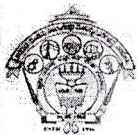




	/Chairman, Board of Studies (BoS), Mechanical Engineering, VTU Belagavi.
3	<p>The syllabus coverage of 5<sup>th</sup> and 7<sup>th</sup> semester has been reviewed and decided to cover the lagging syllabus through the extra classes. Hence it also decided to display Extra Class Time Table. All concerned faculty members are informed conduct the extra classes as per the time table.</p> <p>Also decided to start remedial classes for critical subjects after the completion of labs to ensure the best performance in the VTU SEE.</p> <p>All the concerned faculty members are requested to identify the slow learners and absentees and conduct the classes in crash course mode/training mode (More content delivery in less time effectively) with appropriate pedagogy to ensure the best performance in the CIE &amp; VTU SEE.</p> <p>All faculty members are requested to promote the cooperative learning through CISCs.</p> <p>The respective class teachers ( Prof.MIT &amp; Prof.MMS-5<sup>th</sup> Sem and Prof.BMD &amp; Prof.MAH-7<sup>th</sup> Sem) are informed to monitor the above activity in priority.</p>
4	<p>In view of lateral entry admissions and to bridge the 3<sup>rd</sup> semester academic gaps, it is decided to start Remedial &amp; Make-up Classes from 20<sup>th</sup> January, 2022 along with the regular classes.</p> <p>It is also decided to revise the time-table by including Remedial &amp; Make-up classes along with the regular classes.</p> <p>All the concerned faculty members are requested to identify the slow learners and absentees and conduct the classes in crash course mode/training mode (More content delivery in less time effectively) with appropriate pedagogy to ensure the best performance in the CIE &amp; VTU SEE.</p> <p>All the concerned faculty members are informed to conduct respective CIE as per the requirement in consultation with other course coordinators &amp; HOD.</p> <p>All faculty members are requested to promote the cooperative learning through CISCs and any other innovative methods.</p> <p>The respective class teachers ( Prof.DNI &amp; Prof.KMA) are informed to monitor the above activity in priority.</p>
5	<p>It is decided to revise the Mentor-Mentee List for the AY: 2021-22.</p> <p>With reference to the previous HOD meetings, the mentoring &amp; counseling has been made 2 categories as below:</p> <ol style="list-style-type: none"><li>1. Regular Mentoring &amp; Counseling: Prescribed formats, Pink booklet and Faculty diary, conducted for the students allocated/listed. The broad parameters are academics and achievements.</li><li>2. Extended Mentoring: Prescribed format, conducted for the project associates. The broad parameter is to ensure the career of the student. ( Part of the "I GOT JOB" Programme)</li></ol> <p>All the mentors are requested to complete the task and ensure the benchmark impact on the students. Prof.B.M.Dodamani has been informed to facilitate and document the extended mentoring process.</p>
6	<p>With reference to the HOD meeting-21, the Steering &amp; Monitoring Committee members are reminded to submit the students STTs to conduct activities and functions on or before 13<sup>th</sup> January 2022.</p> <p>It decided to revise the CISCs for the AY:2021-22 to promote cooperative learning and all faculty members are informed to promote the cooperative learning and document the interaction details and its impact in the already explained prescribed format.</p>
7	<p>In view of outbreak of new COVID-19 variants, it decided to ensure 2<sup>nd</sup> dose vaccination for all staff and students. Sri. Arun Sankeshwari has been informed to document the process in the prescribed format with proper authentication.</p>
8	<p>With reference to the 2021 VTU Scheme of study in line with NEP-2020 and parallel batch students' admissions in the 5<sup>th</sup> semester, it is decided to revise the academic workload.</p> <p>With reference to the HOD meeting-22 and 2015 &amp; 2017 scheme students' admissions in the 5<sup>th</sup> semester, it is decided to revise the class time-table w.e.f 3<sup>rd</sup> November 2021.</p>
9	<p>In the view to prepare the students for GATE-2022 and to make industry ready, it is decided to start collaborative GATE coaching, Soft skill trainings and vocational trainings in the summer</p>







vacation/after VTU exams.

Prof.B.M.Dodamani has been informed to schedule the activities in consultation with the students.

- 10 With reference to the Proceedings of HOD Meeting-23 & Principal's NBA Meetings, it is decided to make a Plan of Action for NBA Compliance Report Submission & Visit with effect from 17<sup>th</sup> January 2022.

- 11 The VTU 2021 Scheme of study in line with NEP-2020 with respect to the mechanical engineering courses and their CIE have been discussed. The following are the CIE rubrics for EME course. The concerned faculty members are informed define the rubrics for CIE, report writing or any other activities.

a) Evaluation of Report Writing & Presentation on Curriculum Concerned Lab Demonstration:

G.N. & Name	Student Group	USN	Report Writing Skills (10 points)	Content Realization & correlation with curriculum content (15 points)	Conclusions & Recommendations with justifications (10 points)	Presentation Skills, Contribution & Team work (10 points)	Viva-Voce (15 points)
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Total points obtained (T) (Max. 60 )	Reduced to 20 points/marks $\frac{T}{3}$	Student Signature
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b) Evaluation of Report Writing & Presentation on Curriculum Concerned Visits:

G.N. & Name	Student Group	USN	Report Writing Skills (10 points)	Technology Observation & correlation with curriculum content (10 points)	Conclusions & Recommendations with justifications (10 points)	Presentation Skills, Contribution & Team work (10 points)	Question-Answer & Justification skills(10 points)
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Total points obtained (T) (Max. 50 )	Reduced to 5 points/ marks T/10	Student Signature
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c) Lab Demonstration Report Format:

1. Cover Page with basic information (title, Course Coordinator, student group details etc.)
2. Certificate Page with evaluation sheet with proper rubrics
3. Acknowledgement
4. Nomenclature if any
5. List of Tables & Figure if available
6. Introductory Theory as in syllabus
7. Function of the equipment/s with diagrams and important formulations
8. Experimental Results and Critical Observations
9. Results and Discussion
10. Practical Realizations
11. Conclusion
12. Applications

d) Curriculum Concerned Visits Report Format:

1. Cover Page with basic information (title, Course Coordinator, student group details etc.)
2. Certificate Page with evaluation sheet with proper rubrics
3. Acknowledgement
4. Preface if required
5. Abstract
6. Nomenclature if any







S J P N Trust's  
**Hirasugar Institute of Technology, Nidasoshi**  
 Approved by AICTE, Recognized by Govt. of Karnataka and Affiliated to VTU Belagavi.  
 Accredited at 'A' Grade by NAAC  
 Programmes Accredited by NBA: CSE, ECE, EEE & ME.

Mech. Engg. Dept.  
**HOD Meeting**  
**Proceedings**  
**AY:2021-22**

	7. List of Tables & Figure if available 8. Introductory Theory as in syllabus 9. Functional Technology of the industry with diagrams and important formulations 10. Structure & Products of the Industry 11. Industry Realizations and Observations 12. Recommendations & Conclusion 13. Applications
10	All the staff members are inspired to set HSIT-MED development New Year-2022 Visions & Targets for the following parameters: a. Students' Academic Performance in SEE, GATE etc b. Extended Mentoring c. Excellency in Students Projects d. Research significant contributions & publications e. Faculty Development Programs f. Activity Coordination g. Any qualitative parameter All are informed to define self-key indicators for further improvements/progress.
11	All the guides are informed to motivate the students to submit the project proposals for KSCST sponsorship under the SPP scheme. The concerned faculty member is informed to submit the project development proposal under FPP scheme. The last date to submit proposal is 13 <sup>th</sup> January 2022.

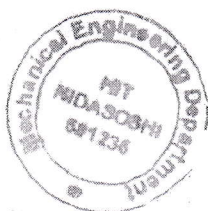
The meeting has been concluded with vote of thanks.

We whole heartedly accepted the above proceedings of Meeting-23:

S.N.	Staff	Signature
1	Dr. K. M. Akkoli	
2	Prof. D. N. Inamdar	
3	Prof. M.S. Futane	
4	Prof. S.A. Goudadi	
5	Prof. M. M. Shivashimpi	
6	Prof. M.A. Hipparagi	
7	Prof. M.I. Tanodi	
8	Prof. B.M. Dodamani	
9	Sri. V.G.Badiger	
10	Sri.A.B.Sankeshwari	

Dr.S.N.Topannavar

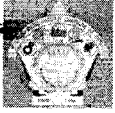
**HOD**  
**Mechanical Engg.**  
**HIT, Nidasoshi**



Nidasoshi, Taq: Hukkeri, Dist: Belgaum, Karnataka - 591 236

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Dr.Raghavendra R. Maggavi <rrmaggavi.ece@hsit.ac.in>

## Feedback on the draft scheme 3-8 sem ECE

1 message

Dr.Raghavendra R. Maggavi <rrmaggavi.ece@hsit.ac.in>

Tue, Jan 11, 2022 at 1:46 PM

To: mkvenkatesha@gmail.com, HOD ece <hod.ece@hsit.ac.in>

Dear sir, below points may be considered while finalizing draft scheme

### III-Sem

inplace of 21INT36 or 21KBK37,21CIP37 and 21UH39 subjects

ability enhancement course-III (1. LD lab using multisim or any other software, 2. AEC lab using multisim or any other software 3.LabView programming basics) can be made compulsory.

### IV-Sem

biology for engineers - not clear about syllabus, provide syllabus for proper feedback

inplace of kannada, CIP, universal human values

ability enhancement course-IV can be made compulsory with three different category (PSOC,embedded C for 8051 microcontroller, advanced python)

Thank you

Dr. R. R. Maggavi M.Tech, Ph.D

Associate professor, Dept. of E&C

Hirasugar Institute of Technology

Nidasoshi, Belagavi.

Mob:09480275583

*[Signature]*  
11/01/2022  
**HOD**  
**Electronics & Commn. Engg. Dept.**  
**H8IT NIDASOSHI**





Dr.Raghavendra R. Maggavi <rrmaggavi.ece@hsit.ac.in>

## regarding nep syllabus for basic electronics

1 message

Dr.Raghavendra R. Maggavi <rrmaggavi.ece@hsit.ac.in>

Tue, Oct 5, 2021 at 2:24 PM

To: mkvenkatesha@gmail.com

Respected Sir,

As per the discussion held in the ECE department, I would like to bring your kind notice that the following points may be noted for framing the basic electronics (21ELN14/24) subject.

- 1) Previous syllabus itself was too vast and heavy for students of other streams to digest, including electronic students.
- 2) The whole syllabus is a combination of many subjects of higher sem
- 3) Time will not be sufficient to cover the syllabus which was the problem of previous syllabus also.
- 4) Keep only power supplies, Amplifiers and operational amplifier in module-1
- 5) Keep only logic circuits in module-2
- 6) Remove the topics concept of radio propagation onwards
- 7) Module 5 supposed to be FET and SCR module-2 from 18ELN14/24


Dr. R. R. Maggavi M.Tech, Ph.D

Associate professor, Dept. of E&C

Hirasugar Institute of Technology

Nidasoshi, Belagavi.

Mob:09480275583

  
**HOD** 05/10/2021  
**Electronics & Commn. Engg. Dept.**  
**HSIT NIDASOSHI**





# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

(ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)



## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994) "Jnana Sangama" Belagavi-590018, Karnataka, India)

**Prof. B. E. Rangaswamy, Ph.D.**  
REGISTRAR

Phone: (0831) 2498100

Fax: (0831) 2405467

REF: VTU/BGM/BOS/New UG-PG Prog/2023-24/448

DATE:

5 DEC 2023

### CIRCULAR

**Subject:** The syllabus of BMEL305-Introduction to Modelling and Design for Manufacturing is revised...

**Reference:** The email from Chairperson BoS Mechanical Engineering, VTU Belagavi dated 27.11.2023

The Hon'ble Vice Chancellors' approval dated 04.12.2023

The faculty development program has been conducted on the course/subject BMEL305: Introduction to Modelling and Design for Manufacturing between the 6<sup>th</sup> and 8<sup>th</sup> of November 2023 at 6 different places in Karnataka to cover the faculty of all zones of VTU Belagavi (ref. VTU/BGM/BOS/FDP/2023-24/3728, Dated October 31, 2023).

Based on the feedback received from the faculty, the syllabus of the course/subject **BMEL305: Introduction to Modelling and Design for Manufacturing** has been revised and submitted to the university for circulation to all concerned by the Board of Studies in Mechanical Engineering, VTU Belagavi.

A revised syllabus copy has been enclosed in this circular for stakeholder reference. The revised syllabus of the course will take effect in the academic year 2023-24 for Mechanical Engineering and its allied branches.

All the principals of the engineering colleges are hereby informed to bring the content of the circular to the notice of all concerned.

Sd/-  
Registrar

To,

All the Principals of Affiliated /Constituent Engineering Colleges, under the University.

The Chairperson / Program Coordinator, University Department at Kalaburagai, Belagavi, Bengaluru and Mysuru

### Copy to:

1. The Hon'ble Vice-Chancellor through the secretary to VC VTU Belagavi for information
2. The Registrar (Evaluation) VTU Belagavi for information and needful

Copy to  
Prof. DNI & Prof. PMK  
as 12/12/23

DD → DNI  
5/12/23  
Prof. PMK  
5/12/23



3. The Director, ITI SMU, VTU Belagavi for information and request to make arrangements for uploading this circular on the VTU web portal in the section of Circular/Notification @ <https://vtu.ac.in/en/category/administration/>
4. The Chairperson/s Board of Studies in Mechanical Engineering and its allied branches
5. The Special Officer, QPDS Examination Section VTU Belagavi for needful.
6. Office Copy

R. 05/12/23  
REGISTRAR  
25/12/23



Introduction to Modelling and Design for Manufacturing		Semester	3
Course Code	BMEL305	CIE Marks	50
Teaching Hours/Week (L: T:P: S)	0:0:2:0	SEE Marks	50
Total Hours of Pedagogy	14 Sessions	Total Marks	100
Credits	01	Exam Hours	3
Examination nature (SEE)	Practical		

**Course objectives:**

- Develop a comprehensive understanding of mechanical assemblies and design for manufacturing principles.
- Learn and apply best practices to create designs that are robust, adaptable, and cost-effective.
- Master the art of maintaining control over designs throughout the entire lifecycle, from initial sketch to final production.
- Gain hands-on experience in practical exercises and projects to reinforce theoretical concepts.
- Acquire effective communication and collaboration skills for multidisciplinary teamwork in design and production processes.

**Teaching-Learning Process (General Instructions)**

These are sample strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- **Project-Based Learning:** Engage students in hands-on projects that simulate real-world design scenarios, enabling practical application of concepts and fostering deeper understanding.
- **Interactive Workshops:** Conduct collaborative workshops where students work together to solve design challenges, encouraging active participation and knowledge sharing.
- **Design Reviews with Feedback:** Regularly review student designs, providing constructive feedback to guide iterative improvement and promote attention to detail.
- **Industry Insights:** Invite guest speakers from the industry to share experiences and insights, helping students connect theoretical knowledge to real-world applications.
- **Multidisciplinary Teams:** Form diverse teams for group projects, allowing students to leverage different skill sets and perspectives to develop comprehensive designs.

<b>Module-1</b>	02 Sessions
<p><b>Introduction to Computer Aided Sketching</b> Review of graphic interface of the software. Review of 2D Sketching, Parametric Solid Modelling, Assembly creation and product rendering. Limits, Fits and Tolerances: Introduction, Fundamental tolerances, Deviations, Methods of placing limit dimensions, Types of fits with symbols and applications, Geometrical tolerances on drawings, Standards followed in industry. <b>(Above topics to be studied as a review)</b></p> <p><b>Geometrical Dimensioning and Tolerances (GD&amp;T):</b> Introduction, Fundamental tolerances, Deviations, Methods of placing limit dimensions, machining symbols, types of fits with symbols and applications, geometrical tolerances on drawings. Standards followed in industry. <b>(Only for CIE)</b></p> <p><b>The basics of sketching and modelling:</b> Explore Fusion 360 User Interface, Navigation and display settings, create new projects and designs, creating basic 2D sketches, Creating &amp; Modifying a solid 3D body with Sections. <b>(For SEE)</b></p>	
<b>Module-2</b>	02 Sessions
<p>Create draft during a feature, create draft as a feature, Add ribs and plastic supports, Create holes and threads. Thread Forms: Terminologies, ISO Metric, BSW, Square &amp; Acme. Seller threads, American Standard Thread. Use a coil feature, Mirrors and patterns. Fasteners: 3D &amp; Section views - Hexagonal headed bolt and nut with washer, Square headed bolt and nut with washer. <b>Keys:</b> Parallel Key, Taper Key &amp; Feather Key.</p>	
<b>Module-3</b>	04 Sessions
<p>The different ways to create components, Use scripts to create gears, Component color swatch and color cycling, Use McMaster-Carr parts in a design. Assembly of Joints and Coupling using 3D environment. <b>Joints:</b> Like Cotter joint (socket and spigot), knuckle joint (pin joint). <b>Couplings:</b> Like flanged coupling, universal coupling.</p>	

21-11-2023.

7



**Module-4**

06 Sessions

Assembly Drawings: (Part drawings shall be given) Drawing Basics-Detailing Drawings. Explode a 3D model for a drawing. Create a drawing sheet and views, Add geometry and dimensions to a drawing, Add GD & T text, BOM, tables and symbols, Place an exploded view, Edit a title block, Export to different file formats.

1. LIFTING DEVICE (Screw Jack)
2. BEARINGS (Plumber Block)
3. MACHINE TOOL COMPONENT (Machine Vice or Tailstock)
4. VALVES (Ram's Bottom Safety Valve)
5. IC ENGINE COMPONENTS (Piston or Connecting Rod)

**Course outcome (Course Skill Set)**

At the end of the course the student will be able to:

1. Create and modify a form-based design.
2. Use design tools for moulded parts.
3. Demonstrate proficiency in the setup and creation of a design.
4. Simulate the assembly of machine components in 3D environment.

**Assessment Details (both CIE and SEE)**

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50) and for the SEE minimum passing mark is 35% of the maximum marks (18 out of 50 marks). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

**Continuous Internal Evaluation (CIE):**

- CIE marks for the practical course is 50 Marks.
- CIE shall be evaluated for max marks 100. Marks obtained shall be accounted for CIE final marks, reducing it by 50%.
- CIE component should comprise of
  - Continuous evaluation of Drawing work of students as and when the Modules are covered.
  - At least one closed book Test covering all the modules on the basis of below detailed weightage.
  - *Weightage for Test and Continuous evaluation shall be suitably decided by respective course coordinators.*

Module	Max. Marks weightage	Evaluation Weightage in marks	
		Computer display & printout	Preparatory sketching
Module-1	15	10	05
Module-2	15	10	05
Module-3	30	20	10
Module-4	40	30	10
Total	100	70	30

**Semester End Evaluation (SEE):**

SEE marks for the practical course is 50 Marks.

- The duration of SEE is 03 hours. Questions shall be set worth of 3 hours
- SEE shall be conducted jointly by the two examiners (one internal and one external) appointed by the University.
- SEE shall be conducted and evaluated for maximum of 100 marks as shown in the table below. Marks obtained shall be accounted for SEE final marks, reducing it to 50 marks.
- Question paper shall be set jointly by both examiners and made available for each batch as per schedule.
- Evaluation shall be carried jointly by both the examiners.
- Scheme of Evaluation: To be defined by the examiners jointly and the same shall be submitted to the university along with question paper.



- One full question shall be set from each Modules as per the below table weightage details. **However, the student may be awarded full marks, if he/she completes solution on computer display without sketch**

Module	Max. Marks weightage	Evaluation Weightage in marks	
		Computer display & printout	Preparatory sketching
Module-1 or Module-2	20	15	05
Module-3	30	20	10
Module-4	50	40	10
<b>Total</b>	<b>100</b>	<b>75</b>	<b>25</b>

#### Suggested Learning Resources:

##### Books

##### Text Books:

1. K L Narayana, P Kannaiah, K Venkata Reddy, "Machine Drawing", New Age International, 3rd Edition. ISBN-13: 978-81-224-2518-5, 2006
2. N D Bhatt, "Machine Drawing", Charotar Publishing House Pvt. Ltd., 50th Edition, ISBN-13: 978-9385039232, 2014
3. Machine drawing by K R Gopalakrishna, Subhash Publication

##### Web links and Video Lectures (e-Resources):

- Learn Fusion 360 in 90 Minutes  
<https://www.autodesk.com/certification/learn/course/learn-fusion-360-in-90-minutes>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning





JAIN COLLEGE OF ENGINEERING  
BELAGAVI



CERT. NO.:JCE/ME/11-2023/FDP/19

### THREE DAYS FACULTY DEVELOPMENT PROGRAM

#### CERTIFICATE OF PARTICIPATION

This is to certify that PROF. DARSHAN INAMDAR from HIT  
NIDASOCHI has participated in Three days Faculty Development  
Program on "Introduction to Modelling and Design for Manufacturing using  
Fusion 360 by AUTODESK" from 6th to 8th November 2023, organized by  
Department of Mechanical Engineering, Jain College of Engineering, Belagavi in  
association with Visveswaraya Technological University, Belagavi and  
AUTODESK.

Program Convener

Dr. B. V. Hubballi  
HOD, Mechanical Engineering  
JCE, Belagavi

Principal & Director

Dr. J. Shivakumar  
Jain College of Engineering Belagavi



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
**B.E. in Electronics and Communication Engineering**  
**Scheme of Teaching and Examinations 2022**  
 Outcome Based Education (OBE) and Choice Based Credit System (CBCS)  
 (Effective from the academic year 2023-24)

**III SEMESTER**

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	BMATEC301	AV Mathematics-III for EC Engineering	TD- Maths PSB - Maths	3	0	0		03	50	50	100	3
2	IPCC	BEC302	Digital System Design using Verilog	TD: ECE PSB: ECE	3	0	2		03	50	50	100	4
3	IPCC	BEC303	Electronic Principles and Circuits	TD: ECE PSB: ECE	3	0	2		03	50	50	100	4
4	PCC	BEC304	Network Analysis	TD: ECE PSB: ECE	3	0	0		03	50	50	100	3
5	PCCL	BECL305	Analog and Digital Systems Design Lab	TD: ECE PSB: ECE	0	0	2		03	50	50	100	1
6	ESC	BXX306x	ESC/ETC/PLC	TD: PSB:	3	0	0		03	50	50	100	3
7	UHV	BSCK307	Social Connect and Responsibility	Any Department	0	0	2		01	100	---	100	1
8	AEC/ SEC	BXX358x	Ability Enhancement Course/Skill Enhancement Course– III		If the course is a Theory				01	50	50	100	1
					1	0	0						
					If a course is a laboratory				02				
					0	0	2						
9	MC	BNSK359	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	---	100	0
		BPEK359	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK359	Yoga	Yoga Teacher									
Total									550	350	900	20	

**PCC:** Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **MC:** Mandatory Course (Non-credit), **AEC:** Ability Enhancement Course, **SEC:** Skill Enhancement Course, **L:** Lecture, **T:** Tutorial, **P:** Practical **S= SDA:** Skill Development Activity, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation. **K:** This letter in the course code indicates common to all the stream of engineering. **ESC:** Engineering Science Course, **ETC:** Emerging





Technology Course, PLC: Programming Language Course			
<b>Engineering Science Course (ESC/ETC/PLC)</b>			
BEC306A	Electronic Devices	BEC306C	Computer Organization and Architecture
BEC306B	Sensors and Instrumentation	BEC306D	Applied Numerical Methods for EC Engineers
<b>Ability Enhancement Course – III</b>			
BEC358A	LABVIEW programming	BEC358C	C++ Basics
BEC358B	MATLAB Programming	BEC358D	IOT for Smart Infrastructure
<p><b>Professional Core Course (IPCC):</b> Refers to Professional Core Course Theory Integrated with practical's of the same course. Credit for IPCC can be 04 and its Teaching-Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23 may please be referred.</p> <p><b>National Service Scheme /Physical Education/Yoga:</b> All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.</p>			

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
**B.E. in Electronics and Communication Engineering**  
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**IV SEMESTER**

Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question and Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	BEC401	Engineering Electromagnetics	ECE	3	0	0		03	50	50	100	3
2	IPCC	BEC402	Basic signal Processing	ECE	3	0	2		03	50	50	100	4
3	IPCC	BEC403	Principles of Communication Systems	ECE	3	0	2		03	50	50	100	4
4	PCCL	BECL404	Communication laboratory	ECE	0	0	2		03	50	50	100	1
5	ESC	BEC405x	ESC/ETC/PLC		3	0	0		03	50	50	100	3
6	AEC/ SEC	BXX456x	Ability Enhancement Course/Skill Enhancement Course- IV	TD and PSB: Concerned department	If the course is Theory				01	50	50	100	1
					1	0	0						
					If the course is a lab				02				
					0	0	2						
4	BSC	BBOK407	Biology For Engineers	TD / PSB: BT, CHE,	3	0	0		03	50	50	100	3
7	UHV	BUHK408	Universal human values course	Any Department	1	0	0		01	50	50	100	1
9	MC	BNSK459	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	---	100	0
		BPEK459	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK459	Yoga	Yoga Teacher									
Total									500	400	900	20	

PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC: Ability Enhancement Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. K :This letter in the course code indicates common to all the stream of engineering.



**PRINCIPAL**  
 Nidasoshi Institute of Technology  
 NIDASOSHI-591236



Engineering Science Course (ESC/ETC/PLC)			
BEC405A	8051.Microcontroller	BEC405C	Operating Systems
BEC405B	Industrial Electronics	BEC405D	Control Systems
Ability Enhancement Course / Skill Enhancement Course - IV			
BEC456A	Embedded C basics	BEC456C	DAQ using LabVIEW
BEC456B	PCB Design	BEC456D	Risk Management in IOT Implementation
<p><b>Professional Core Course (IPCC):</b> Refers to Professional Core Course Theory Integrated with practical of the same course. Credit for IPCC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23</p> <p><b>National Service Scheme /Physical Education/Yoga:</b> All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the courses is mandatory for the award of degree.</p>			



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CSE Dept.

STAC

DBMS Mini  
Project Competition

2022-23 (Odd)

### Activity Report

Date and Time	21 <sup>st</sup> January 2023 at 09.30AM
Name of Activity	DBMS Mini Project Exhibition cum Competition
Type of Activity	Technical
Target Audience	5 <sup>th</sup> CSE Students
Number of students participated	59
Activity In-charge	Prof. Aruna A. Daptardar
Jury Members	Prof. D. M. Kumbar, Prof. N. M. Patel

#### About the Activity:

STAC (Students and Teachers Association of Computer Science), Dept. of CSE has organized department level **"DBMS Mini Project Exhibition cum Competition"**, in order to inculcate the problem solving, programming and teamwork skills among the students.

A total of 16 student teams of 5<sup>th</sup> semester have participated in the competition. Two faculty members Prof. D. M. Kumbar from ECE department & Prof. N. M. Patel from CSE department have served as jury members. The teams are ranked based on their presentation skills, idea of choosing the title, implementation logic and finally, top 4 teams were declared as winners.

Sl. No.	Outcomes of the Activity	Relevance to POs/PSOs
1	To implement the solutions for the given problems using Modern tools.	PO5, PSO1
2	To exhibit team work skills.	PO9
3	To exhibit the Communication skills.	PO10
4.	Apply the knowledge of managing the project and its finance.	PO11

#### Activity Photographs:



Welcoming Jury Members



Address by HOD





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CSE Dept.

STAC

DBMS Mini  
Project Competition

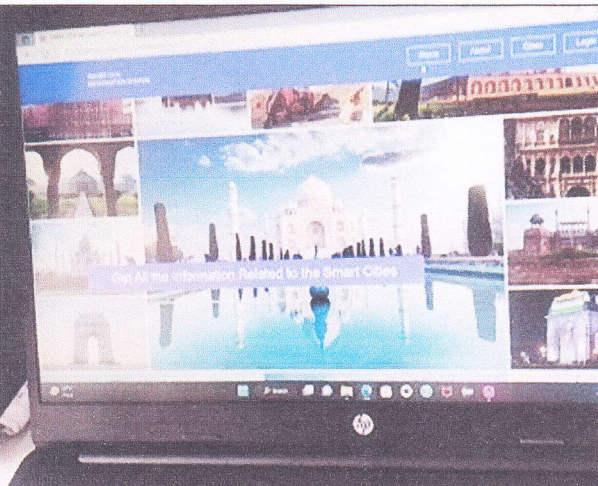
2022-23 (Odd)



Demonstration of Project in front of Jury Members



Demonstration of Project in front of Jury Members



Home Page of Project

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**DBMS MINI PROJECT EXHIBITION CUM COMPETITION**

NAME OF THE STUDENT	PROJECT TITLE	RANK	
1. CHETAN GHOLABHAVI 2. OMKAR KULKARNI 3. PRANAV KOSHTI 4. SIDDAPPA GODI	HOSPITAL MANAGEMENT SYSTEM	I	
1. MANIKANTH DRAXE 2. SUSHIL PATIL 3. SACHIN BADGIER 4. SURAJ PATIL	DAIRY MILK COLLECTION AND BILLING SYSTEM		
1. ARATI CHOUBAJ 2. SHWETA KOLI 3. SHEHA PATIL 4. SANA HOSAKITTYI	LAUNDRY MANAGEMENT SYSTEM		II
1. VISHAL PATIL 2. RITESH DESHPANDE 3. SANKARSHIN SAGHWADI	BANK MANAGEMENT SYSTEM		III
1. OMKAR PATIL 2. PRAMOD PATIL 3. PRANAV SAEKAR	EMPLOYEE MANAGEMENT SYSTEM	CONSOLATION PRIZE	

**Hearty Congratulations to All the Winners!!!!!!**  
From: HOD, Staff & Students

Winners List

*Aptardar*  
23/01/23  
Prof. Aruna A. Daptardar  
Activity Coordinator

*Manjaragi*  
23/01/23  
Prof. S. V. Manjaragi  
H.O.D  
Computer Science & Engg.  
HIT, Nidasoshi.





# CERTIFICATE OF INTERNSHIP

This is to certify that **Ms. Shweta Anil Mangsole** of VII Semester student in the Department of Electronics and Communication Engineering at Hirasugar Institute Of Technology, with the USN 2HN20EC036, has successfully completed 4 weeks of the Internship Program on VLSI Physical Design Flow at eTech prowess Pvt. Ltd, Bengaluru.

Start Date: 16th August 2023  
End Date: 15th September 2023

We wish her all the best for future endeavors



---

**Srikanth BG**  
Executive Director





ಸರ್ಕಾರಿ ಉಪಕರಣಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ ಬೆಳಗಾವಿ  
(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ನೋಂದಾಯಿತ ಸಂಸ್ಥೆ)

Government Tool Room and Training Centre, Belgaum  
(A Registered Society under Government of Karnataka)

Ref:GTTC/Internship/NBM/2023-24

Date:03-10-2023

### CERTIFICATE

This is to certify that Miss NAKSHARTA BASAVARAJ MAGADUM bearing  
USN: 2HN20EE011 of final year Bachelor of Engineering in DEPARTMENT  
OF ELECTRICAL & ELECTRONICS ENGINEERING at HIT NIDASOSHI  
affiliated to Visvesvaraya Technological University, Belagavi Karnataka has  
undergone an Internship at our organization for the course of

**" ROBOTICS PROGRAMMING AND OPERATIONS "**

period of 11-08-2023 TO 11-09-2023 has successfully completed her  
Internship during the academic year 2023-2024

We wish her all the best for his future endeavors.



  
Authorized Signature  
Govt. Tool Room & Training Centre  
Udyambag, Belgaum-590008

A scientific & Industrial Research organisation Recognised by Govt. of India

Rajajinagar Industrial Estate, Bengaluru-560010

Tel No. 080-83152118, 23152119, 23152262, 23301683

Government Tool room and Training Centre, Industrial Estate, Udyambag Belgaum, Tel No. 0831-2950611

Website: [www.gttc.co.in](http://www.gttc.co.in) email: [gttc\\_bgm@yahoo.com](mailto:gttc_bgm@yahoo.com)



<b>Date of Activity held and Time:</b>	<b>09/12/2022</b> <b>2.00 to 5.00 pm</b>
<b>Name of Activity:</b>	<b>Hands on Session “Python tool &amp; Python programming for Machine Learning”</b>
<b>Type of Activity:</b> (cultural/curricular/co-curricular)	<b>co-curricular</b>
<b>Resource Person/Invitee:</b>	<b>Prof. P. V. Patil &amp; Prof. S. S. Malaj</b>
<b>Professional Details of Resource Person:</b>	Asst Prof, Dept of EC,HIT, Nidasoshi-591236
<b>Year / Class:</b>	7 <sup>th</sup> Semester students
<b>No. of students:</b>	12
<b>No. of Staff:</b>	02
<b>Activity In charge:</b>	Prof. P.V.Patil, Prof.S.S.Malaj and M.A.Attar

**Description of Activity:** A Hands on Session with “Python tool & Python programming for Machine Learning” was organized for 7<sup>th</sup> sem students as part of co-curricular activity to enhance the knowledge of students for providing the practical knowledge . The students had undergone the execution of several examples using the Colab Tool. The Colab tool was introduced and the execution of programs using this tool was told and students executed several programs with different examples .This Colab Software will help students to work for their real time application .Total 12 students participated in this activity.



**Inauguration of the Session by Prof.P.V.Patil**



**Introduction about the Session by Prof.s.S.Malaj**





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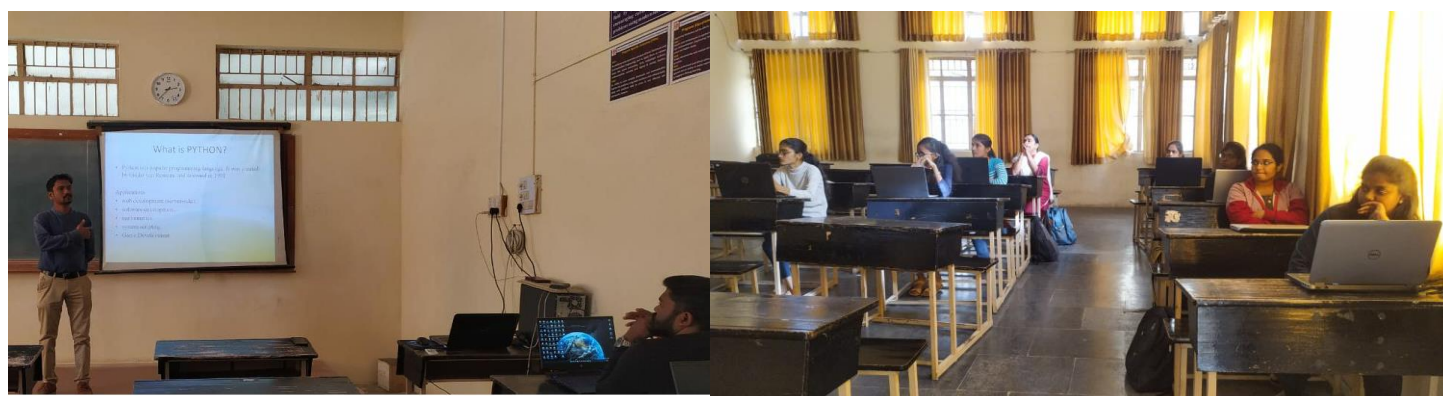
**ECE Dept**  
**Academic**  
**Activity Report**  
  
**2022-23**



**Hands on Session Introduction**



**Explanation about Hands on Session**



**Hands on Session by Participants**

Staff Incharges


Prof.P.V.Patil

Prof.S.S.Malaj

M.A.Attar(Instructor)

**HOD**  
Electronics & Communication Engg.  
Hirasugar Institute of Technology,  
Nidasoshi-591 236



	<p style="text-align: center;">S J P N Trust's  <b>Hirasugar Institute of Technology, Nidasoshi.</b>  <i>Inculcating Values, Promoting Prosperity</i>          Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi          Recognized under 2(f) &amp; 12B of UGC Act, 1956          Accredited at 'A' Grade by NAAC &amp; Programmes Accredited by NBA:CSE &amp; ECE</p>	<b>CSE Dept.</b>
		<b>Activity Report</b>
		<b>2022-23 (Even)</b>

### Department of Computer Science and Engineering

<b>Date of Activity held</b>	17/04/2023 to 20/04/2023
<b>Name of Activity</b>	<b>4-Days Workshop on "Internet of Things"</b>
<b>Type of Activity (Cultural/Curricular/Co-Curricular)</b>	Co-Curricular
<b>Resource Person</b>	Mr. Vinayak R. Dhongadi and Mr. Pramod M
<b>Professional Details Of Resource Person</b>	Co-Founder at NextG Automation LLP and Amsa Embedded Solutions, Hubali
<b>Year/ class</b>	8 <sup>th</sup> Semester CSE Students
<b>No. of students</b>	50
<b>Activity in-charge</b>	Dr. K. B. Manwade

#### Description of Activity:

Department has organized 32 hours training program on "Internet of Things" for 8<sup>th</sup> semester students of Computer Science and Engineering department. This activity was scheduled from 17/04/2023 to 20/04/2023. The resource persons Mr. Vinayak R. Dhongadi and Mr. Pramod M were from AMSA Embedded Solutions, Hubali. In this workshop concepts related to introduction to IOT, embedded system design, micro controlling and interfacing are explained to students. Also hands on sessions were conducted for these topics. Total 50 students from 8<sup>th</sup> semester had attended the workshop.

#### Activity photographs:







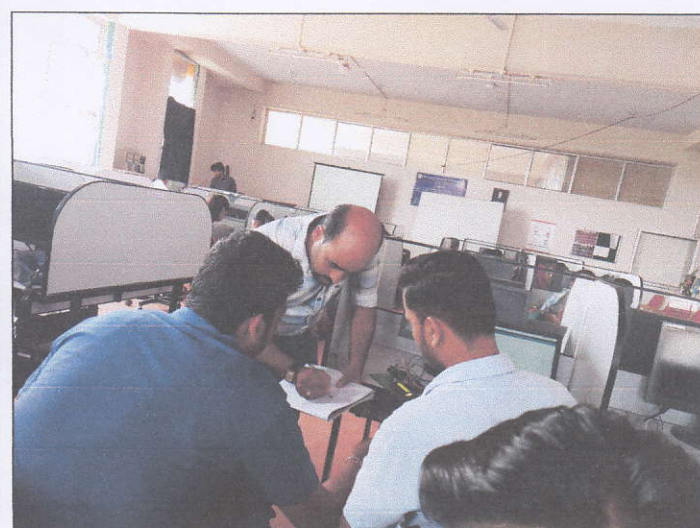
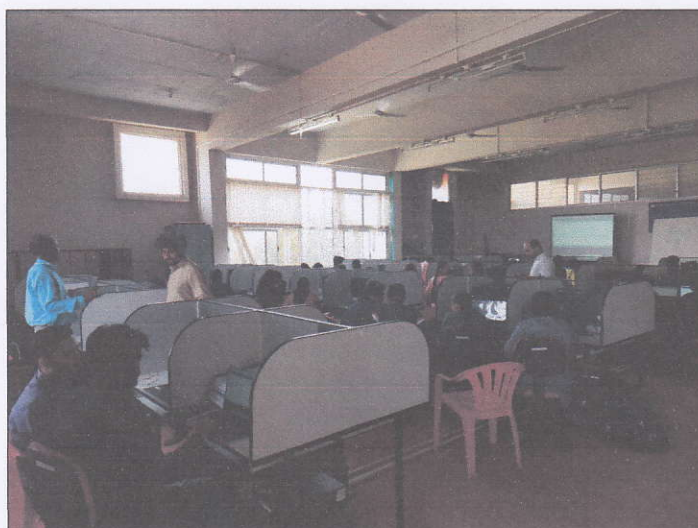
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CSE Dept.


Activity Report

2022-23 (Even)

**Activity photographs:**



  
**Dr. K. B. Manwade**  
Activity Coordinator

  
**Prof. S. V. Manjaragi**  
HOD CSE  
**H.O.D**  
**Computer Science & Engg.**  
**HIT, Nidasoshi**





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Mech. Engg. Dept.

AIMSS

Activity Report

AY:2022-23

**Activity Report**

S.No.	Title of the information	Information in brief																				
1	Identified Gap No/s.	14																				
2	Activity Type	Short Term Training program																				
3	Activity/Event Organizer/s or Coordinator/s	Dr. S. N. Topannavar, Professor and HOD, Mechanical Engineering Department, HIT Nidasoshi																				
4	Title of the Activity/Event	A collaborative hands-on STTP on “ <b>Design and Analysis using MSC Apex Software &amp; Multi body Dynamics (Motion Simulation)</b> ”																				
5	Date and Time	17.11.2022 To 19.11.2022																				
6	Venue	Research Centre, Mechanical Engineering Department																				
7	Objectives	<ol style="list-style-type: none"><li>1. To understand the modeling, design and simulation software.</li><li>2. To design and analysis of systems and processes using MSC-Apex and ADAM software tools.</li><li>3. To have hands-on –experience on Multi body dynamics software’s using motion simulations.</li><li>4. To model, design and analysis of complex and relevant industrial engineering problems of national interest.</li><li>5. To promote activity based and participate learning.</li></ol>																				
8	Expected Outcomes	<ol style="list-style-type: none"><li>1. Importance and applications of software in mechanical domain.</li><li>2. It enables the students to import and manipulate any existing CAD data easily for the optimization with the integrated, powerful geometry tools.</li><li>3. The student can evaluate the optimization result better and determine early and easily, which design candidate is promising or not. It helps the students to drive the optimization in the right direction and gives more control.</li><li>4. Tool supports the user in setting up optimization for assemblies with all relevant parts and areas of the assembly: no effortful manual work, but a workflow designed for this with guidance and user-focused tools.</li><li>5. Advance features of MSC Apex Software and hands on design &amp; analysis of industrial problems.</li></ol>																				
9	Details of Resource	<ol style="list-style-type: none"><li>1. Mr. Manohar S.N. Application Engineer ALTEM Technologies Private Limited Bangalore</li><li>2. Mr. Vivek Diwan Application Engineer ALTEM Technologies Private Limited Bangalore</li></ol>																				
10	Finance Management	Expenses incurred by the Department Association AIMSS																				
11	No. of participants	Students (Boys & Girls Separately): 26 Boys & 02 Girl students and Staff: 10 members																				
12	Mapped POs ,Weight-age assigned & %age of attainment : PO (Weight-age)	<table><tr><th>PO’s Mapped</th><th>Weight-age assigned (1/2/3)</th><th>%age of Attainment</th><th>Level of attainment</th></tr><tr><td>P01</td><td>3</td><td>99.8</td><td>2.994</td></tr><tr><td>P02</td><td>2</td><td>99.8</td><td>1.996</td></tr><tr><td>P03</td><td>1</td><td>99.8</td><td>0.998</td></tr><tr><td>P05</td><td>3</td><td>99.8</td><td>2.994</td></tr></table>	PO’s Mapped	Weight-age assigned (1/2/3)	%age of Attainment	Level of attainment	P01	3	99.8	2.994	P02	2	99.8	1.996	P03	1	99.8	0.998	P05	3	99.8	2.994
PO’s Mapped	Weight-age assigned (1/2/3)	%age of Attainment	Level of attainment																			
P01	3	99.8	2.994																			
P02	2	99.8	1.996																			
P03	1	99.8	0.998																			
P05	3	99.8	2.994																			



Nidasoshi, Taq: Hukkeri, Dist: Belgaum, Karnataka - 591 236

Phone: +91-8733-278887, Fax: 278886, Web: [www.hsit.ac.in](http://www.hsit.ac.in) Mail: [principal@hsit.ac.in](mailto:principal@hsit.ac.in)





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Mech. Engg. Dept.

AIMSS

Activity Report

AY:2022-23

		<table><tr><td>P08</td><td>1</td><td>99.8</td><td>0.998</td></tr><tr><td>P010</td><td>2</td><td>99.8</td><td>1.996</td></tr><tr><td>P012</td><td>3</td><td>99.8</td><td>2.994</td></tr></table>	P08	1	99.8	0.998	P010	2	99.8	1.996	P012	3	99.8	2.994				
P08	1	99.8	0.998															
P010	2	99.8	1.996															
P012	3	99.8	2.994															
13	Mapped PSOs, Weight-age assigned & %age of attainment: PSO (Weight-age)	<table><tr><th>PSO's Mapped</th><th>Weight-age assigned (1/2/3)</th><th>%age of Attainment</th><th>Level of attainment</th></tr><tr><td>PSO1</td><td>3</td><td>99.8</td><td>2.994</td></tr><tr><td>PSO2</td><td>2</td><td>99.8</td><td>1.996</td></tr><tr><td>PSO3</td><td>2</td><td>99.8</td><td>1.996</td></tr></table>	PSO's Mapped	Weight-age assigned (1/2/3)	%age of Attainment	Level of attainment	PSO1	3	99.8	2.994	PSO2	2	99.8	1.996	PSO3	2	99.8	1.996
PSO's Mapped	Weight-age assigned (1/2/3)	%age of Attainment	Level of attainment															
PSO1	3	99.8	2.994															
PSO2	2	99.8	1.996															
PSO3	2	99.8	1.996															
14	Outcomes achieved/Impact analysis	<p>1. The activity mapped with PO1, PO2, PO3, PO5, PO8, PO10 and PO12 was found satisfactory with attainment levels of 2.994, 1.996, 0.998, 2.994, 0.998 1.996 and 2.994 against the mapped values during the impact analysis.</p> <p>2. The activity mapped with PSO1, PSO2 and PSO3 was found satisfactory with attainment level of 2.994, 1.996 &amp; 1.996 respectively against the mapped value during the impact analysis.</p>																

## Photo Gallery



Mr. Manohar S. N. Application Engineer ALTEM Technologies Private Limited Bangalore is presenting about MSC software to staff and students on the occasion of A collaborative hands-on STTP on "Design and Analysis using MSC Apex Software & Multi body Dynamics (Motion Simulation)" held from 17<sup>th</sup> November 2022 to 19<sup>th</sup> November 2022.





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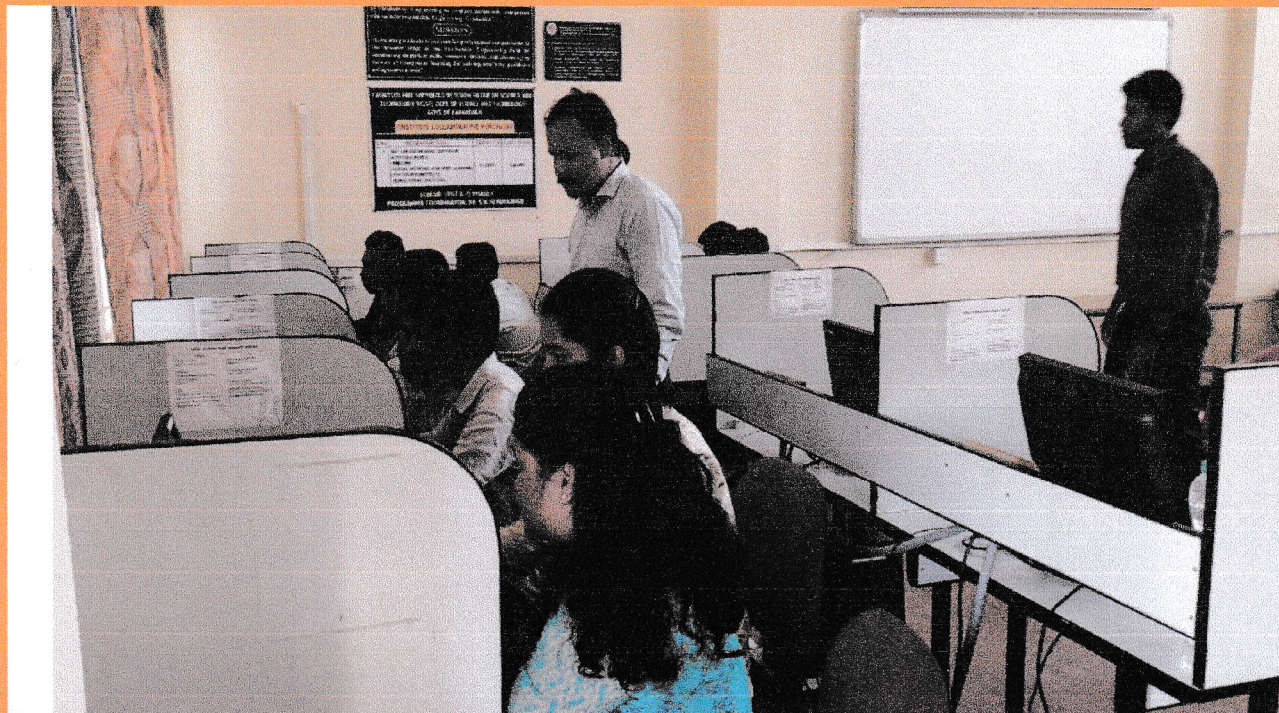
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Mech. Engg. Dept.

AIMSS

Activity Report

AY:2022-23



The students are practicing the problems during hands on session in presence of resource person Mr. Vivek Diwan Application Engineer ALTEM Technologies Private Limited Bangalore on the occasion of A collaborative hands-on STTP on “Design and Analysis using MSC Apex Software & Multi body Dynamics (Motion Simulation)” held from 17<sup>th</sup> November 2022 to 19<sup>th</sup> November 2022.



Shot on OnePlus  
By VINYA VB

Miss. Archana R Gulli is receiving participation certificate from resource person and Dr. S.C. Kamate, Principal Hirasugar Institute of Technology, Nidasoshi is the president of valedictory function on the occasion of A collaborative hands-on STTP on “Design and Analysis using MSC Apex Software & Multi body Dynamics (Motion Simulation)” held from 17<sup>th</sup> November 2022 to 19<sup>th</sup> November 2022.





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Mech. Engg. Dept.

AIMSS

Activity Report

AY:2022-23



Group photo of resource person, staff and students on the occasion of A collaborative hands-on STTP on "Design and Analysis using MSC Apex Software & Multi body Dynamics (Motion Simulation)" held from 17<sup>th</sup> November 2022 to 19<sup>th</sup> November 2022.

Mr. Kiran S Dhang  
AIMSS Secretary

*Fos*

Dr. M. M. Shivashimpi & Prof. D. N. Inamdar  
AIMSS-Coordinator/s

Dr. S. N. Topannavar

**HOD**  
**Mechanical Engg.**  
**HIT, Nidasoshi**





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EEE Dept.

EESSA

Activity Report

2022-23  
(Odd Sem)**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG.**

Date of Activity held	10/10/2022 to 15/10/2022
Time	2:00 PM to 5:00PM
Name of Activity	A Faculty Development Program on "Pedagogical Initiatives for Effective implementation of VTU-21 Scheme of syllabus for BE Program as per the aspirations of NEP-2020"
Resource Person	Dr. B. V. Madiggond
Professional Details of Resource Persons / Guests / Jury Members	Chairman, BoS (EEE), Dean academic & HOD EEE Department, Hirasugar Institute of Technology, Nidasoshi.
No. of participants-	40
Activity In charge-	Prof. M. P. Yenagimath

**Description of Activity:**

EESSA organized a Faculty Development Program on "Pedagogical Initiatives for Effective implementation of VTU-21 Scheme of syllabus for BE Program as per the aspirations of NEP-2020" during 10<sup>th</sup> Oct. 2022 to 15<sup>th</sup> Oct. 2022. The resource person Dr. B. V. Madiggond, Chairman, BoS (EEE), Dean Academic explained the importance and role of NEP in the present scenario and discussed 2022 scheme regulations governing the degree of Bachelor of Engineering and important points that highlight the role of faculty in implementing NEP. He also highlighted on scheme of teaching and examinations in every program and its implementations.

  
EESSA Coordinator

  
**Dr. B. V. Madiggond**  
HOD  
Prof. & Head BE,ME,Ph.D.  
Dept. of Electrical & Electronics Engg.  
HIT NIDASOSHI-591 236





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EEE Dept.

EESSA

Activity Report

2022-23  
(Odd Sem)

### Activity Photographs:



  
10/10/2022  
EESSA Coordinator

  
19/10  
Dr. B. V. Madiggond  
HOD BE, ME, Ph.D.  
Prof. & Head  
Dept. of Electrical & Electronics Engg.  
HIT NIDASOSHI-591 236





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ECE Dept.

Academic

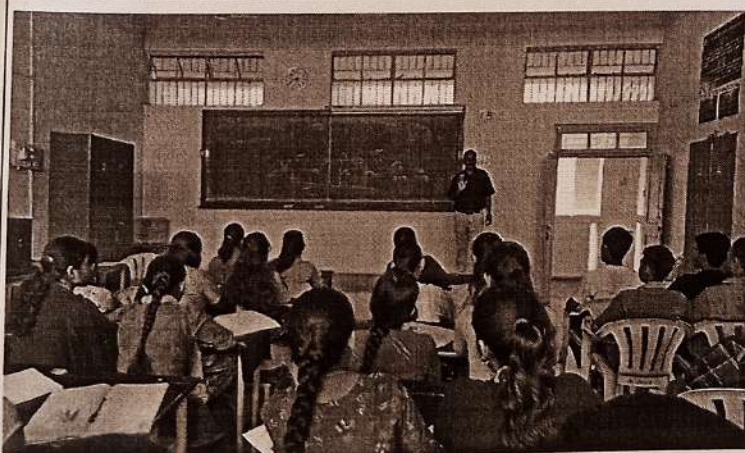
Internship

2022-23 (Odd)

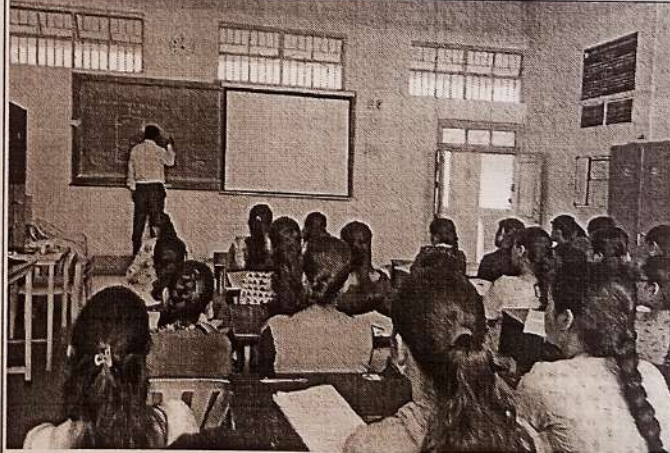
<b>Date of Activity held and Time:</b>	13-10-2022 to 14-10-2022 10:00am to 1:00pm
<b>Name of Activity:</b>	Mini-projects using commercially available assembled electronic products
<b>Type of Activity:(cultural/curricular/co-curricular)</b>	<b>Curricular</b> :Intra Institutional Internship Program Schedule for II semester Students
<b>Resource Person</b>	Prof. D. M. Kumbhar Prof. B. P. Khot
<b>Supporting staff:</b>	Sri. M. A. Attar
<b>Year / Class:</b>	2 <sup>nd</sup> semester students
<b>No. of Participants:</b>	48
<b>Activity In charge:</b>	Prof. D. M. Kumbhar, Prof. B. P. Khot, Sri. M. A. Attar

▪ **Description of Activity:** As a part of internship program for II semester ECE students Mini-projects using commercially available assembled electronic products was planned and organized on 13<sup>th</sup> and 14<sup>th</sup> October 2022 from 10.00AM to 1.00PM. On 13<sup>th</sup> the event started with brief introduction on Design of Power Supply & LED running light using Proteus software as well as hardware implementation. Students did both the projects using Proteus software as well as done with the hardware implementation. On 14<sup>th</sup> at 10.00AM the event started with brief introduction on Automatic Light Detector using Proteus software as well as hardware implementation. Students did the Automatic Light Detector project using Proteus software as well as done with the hardware implementation.

CO No.	CO Defined	RBT Level	Relevance POs	Relevance PSOs
1	Design of Power Supply, LED running light and Automatic Light Detector using Proteus software as well as hardware implementation	L3	PO1, PO3, PO5, PO9, PO11, PO12	PSO1, PSO2



Prof. D. M. Kumbhar giving brief introduction on Design of Power Supply on 13/10/2022



Prof. D. M. Kumbhar giving brief introduction on Automatic Light Detector on 14/10/2022





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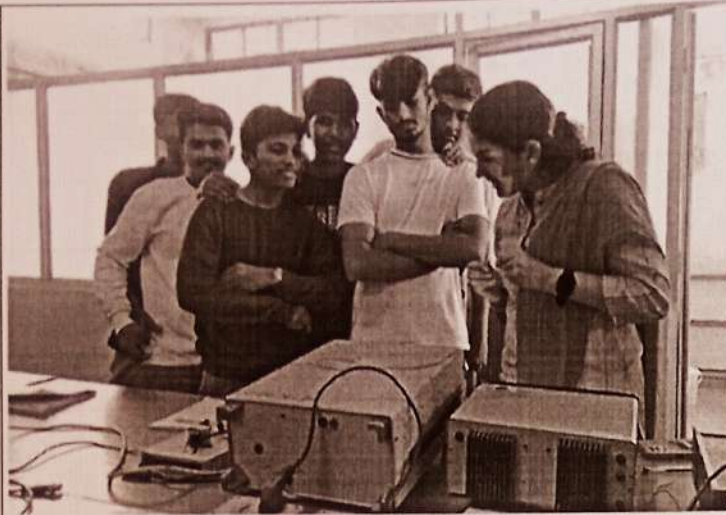
Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA:CSE & ECE

ECE Dept.

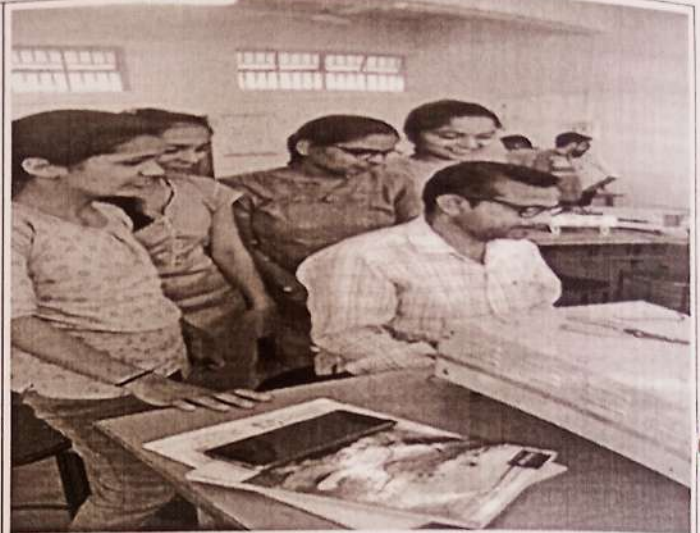
Academic

Internship

2022-23 (Odd)



Prof. B. P. Khot explaining about LED running light working  
13/10/2022



Shri. M.A. Attar explaining about Automatic Light Detector  
14/10/2022

Activity Coordinator: Prof. D. M. Kumbhar

Prof. B. P. Khot

Sri. M. A. Attar

*Prof*  
23/10/22

**HOD**

Electronics & Communication Engg.  
Hirasugar Institute of Technology,  
Nidasoshi-591 236



72. **HIRASUGAR INSTITUTE OF TECHNOLOGY, BELAGAVI**

550.	46S_BE_0932	BONE FRACTURE DETECTION AND CLASSIFICATION IN XRAY IMAGES USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	DR.MAHESH.G.HUDDAR	MR. ASHWATHRAJ NERLI MR. VIRESH OMKAR MS. SAHANA PATIL MR. AFTABAHMAD QAZI	3,000.00
551.	46S_BE_1723	BLOOD CELL COUNTING IN SMEAR IMAGES USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	DR. K. B. MANWADE	PADMA BORANNAVAR AKSHATA MOKASHI SAHANA NAIK KEERTI CHAJAGAUD	4,000.00
552.	46S_BE_1997	SMART EYE TYPING APPLICATION USING EYE GAZE RECOGNITION AND VIRTUAL KEYBOARD	B.E.	COMPUTER SCIENCE AND ENGINEERING	PROF. N K HONNAGOUDAR	PRASAD HIREMATH PRADEEP RAGHANNAVAR NIVEDITA L UDAPUDI PRIYANKA KURBET	4,000.00
553.	46S_BE_2226	DESIGN AND IMPLEMENTATION OF HYBRID POWERED MULTIFUNCTION BICYCLE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	DR. B. V. MADIGGOND PROF. K. B. NEGALUR	CHIDANAND HARUGERI DASHARATH KARABARI YALLAPPA GAWADE	6,000.00



Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	AMOUNT SANCTIONED (Rs.)
554.	46S_BE_1718	ROBOKISAN - AUTONOMOUS SOLAR POWERED VOICE CONTROLLED MULTILINGUAL SUPPORT OVER IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	PROF.S.S.MALAJ	BHAGYASHEE D MADIHALLI HARSHITA A GOUDADI SWATI I KATAGERI	6,000.00
555.	46S_BE_1734	INNOVATIVE APPROACH TO PREVENT ILLEGAL SMUGGLING IN FOREST AREAS USING MACHINE LEARNING AND IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	PROF. S. S. KAMATE	SURABHI S MARADI	5,000.00
556.	46S_BE_2051	EXPERIMENTAL INVESTIGATION OF SHOT PEENING PROCESS ON ALUMINIUM ALLOY	B.E.	MECHANICAL ENGINEERING	PROF.D.N.INAMDAR PROF.G.M.ZULAPI	SATIGOUDA PATIL PRATHAMESH NILAJI SURAJ MARADI SHIVANAND DODAGOUDAR	6,000.00
557.	46S_BE_2070	FIBER EXTRACTION FROM BANANA STEM	B.E.	MECHANICAL ENGINEERING	M. S. FUTANE	DHANANJAYAKUMAR MAGADUM PAVANKUMAR SHIRAHATTI MAHADEV PATROT RAMESH ADIN	6,000.00
558.	46S_BE_2853	ECO FREINDLY ADVANCED COMMUNITY SOLAR DRYER	B.E.	MECHANICAL ENGINEERING	DR.S. N. TOPANNAVAR	MR. SOURABHA SHINDE MR. ADITYA PATIL MR. RAMESH MANJARARGI MR. VIRUPAXAYYA MATHAD	6,000.00





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ECSA.

Activities

Sports

2022-23

Date of Activity held and Time:	16/12/2022 (2:00 pm)
Name of Activity:	Poster Presentation
Type of Activity: (cultural/curricular/co-curricular)	Co-curricular
Resource Person/Invitee :	
Professional Details of Resource Person :	
Year / Class :	All 2nd, 3 <sup>rd</sup> , and 4 <sup>th</sup> year Students.
NO. of Students :	14
NO. Of Staff :	All
Activity In Charge :	Prof. D M Kumbhar

**Description of Activity :**

The Poster Presentation activity was carried out on 16/12/2022 by ECSA for all EC students to express their ideas on different topics through poster presentation. Students made different posters with innovative skills and expressed views through it.



ECSA Coordinator

Electronics & Communication Engg.  
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I Year Engg.  
Department  
Activities  
Activity Report  
2022-23

## Activity Title: Hobby/Science Project Exhibition

Date of activity held	28 <sup>th</sup> February 2023
Time	2:00 pm to 5:30 pm
Type of Activity	Hobby/Science Project Exhibition
Theme	Science , Technology and Environment
Year/Class	First-Year Students.
No. of students	Around 49
Activity In-charge	Dr. M. S. Hanagadakar

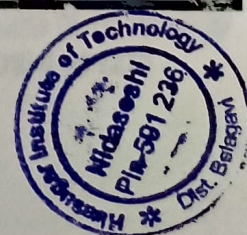
### Activity Description/Objectives:

- An objective of providing a platform to exhibit **Inventions and creativity.**
- **Activity** to create Engineering Interests and Recognizing Talents/Skills.
- To popularise science and technology for the benefit of students and for the common man.
- To encourage science education, communication and technology transfer.
- To encourage application oriented research in the field of Basic & Applied Sciences.
- To acquire knowledge, conceptual understanding and skills to solve problems and make informed decisions in scientific and other contexts.

### Activity Photographs:



Presenttion of Proejects by the students







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I Year Engg.

Department  
Activities

Activity Report

2021-23



**Presenttion of Proejects by the students and Prize distribution to the Winners**

Activity Coordinator  
Dr. M.S. Hanagadakar

07/03/23

I-Year Coordinator  
Dr.K. B. Manwade

Principal

Dr.S.C.Kamate  
**PRINCIPAL**

**Hirasugar Institute of Technology**  
**NIDASOSHI-591236**







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ECE Dept.

ECSA


Activities

2022-23

### ECSA Activities List for the Academic Year 2022-23

Sl. No.	Name of the Event	Date
01	Fresher's Day	03-12-2022
02	Python Tool and Python Programming for Machine Learning	09-12-2022
03	Workshop on "PCB Design & Testing"	15-12-2022 to 18-12-2022
04	Treasure Hunt	16-12-2022
05	Poster Presentation	16-12-2022
06	Introduction to Artificial Intelligence	23-12-2023
07	Basic Arduino Programming	17-01-2023 To 19-01-2023
08	Recent Trends & Opportunities in VLSI	08-03-2023
09	Management Concepts & B-Plan	25-04-2023
10	Full pitch cricket	28-06-2023
11	Lagori	28-06-2023

  
ECSA Coordinator

  
Electronics & Communication Engg.  
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### **BITES EXPERT SERIES (BES) (APRIL 2023)**

Week No	Date	Expert Name & Designation	Topic	Participants	Number of Participants
1	06/04/2023	Mr.Ashish Rathi, Chief Architect, Persistent Systems.	AI-A Brief Introduction	Final Year Students	35
2	10/04/2023	Dr.Viraj Kumar, Visiting Professor, IISC,Bangalore.	Impact of Generative AI for Academia	Faculty Members	26
3	13/04/2023	Dr.Apurba Das, Technology Head Cognitive AI (IOT & DE), TCS,Bangalore	Computer Vision: Challenges & Research Opportunities	Third Year Students	52
4	28/04/2023	Dr.Meenakshi H.N, Senior Principal Consultant -Learning, Data Science Unit, ETA, Infosys	Generative AI	Final Year Students	120





**5 May 2023**

**Submitted to the Principal:**

Sub: Report on BITES EXPERT SERIES (BES) for the month of April 2023.

The BITES EXPERT SERIES conducted weekly webinar for faculty members and students based on emerging trends and industry compatible topics.

The webinar was taken by industry and academic experts.

In week1, the expert Mr.Ashish Rathi, Chief Architect, Persistent Systems gave a technical talk on "AI-A Brief Introduction" on 06/04/2023 from 3 pm to 4pm. 15 second year students attended the session.

He explained the role of Artificial Intelligence in current job opportunities.AI which is the simulation of human intelligence processes by machines, especially computer systems. Natural Language Processing (NLP) is a subfield of AI that focuses on the interaction between computers and humans using natural language. NLP is used to analyze, understand, and generate human language.

Further he discussed that AI and NLP have created many job opportunities in recent years and the most popular job roles include Machine Learning Engineer, Data Scientist, NLP Engineer, AI Research Scientist, and AI Product Manager.

In week 2, Dr.Viraj Kumar, Visiting Professor, IISC,Bangalore delivered a technical talk to faculty members on "Impact of Generative AI for Academia "on 10/04/2023 from 3 pm to 4pm. 80 second year students attended the session.50 faculty members of various branches attended the session.

The following topics were discussed during the session

- Generative AI has the potential to make a significant impact in the realm of academic publishing.
- By leveraging generative AI techniques, it is possible to improve engagement with academic papers and make them more accessible to a wider audience
- Generative AI raises questions about
  - how to assess students
  - how students learn to write and
  - what constitutes cheating and plagiarism
- Generative AI tools such as ChatGPT



In week 3, Dr.Apurba Das, Technology Head Cognitive AI(IOT & DE), TCS, Bangalore gave a webinar on “Computer Vision: Challenges & Research Opportunities “ on 13/04/2023 from 3 pm to 4pm. 132 third year students attended the session.

He explained computer vision, the field of data analysis deals with extracting meaningful information from images and videos.

The applications include the domains such as healthcare, security, entertainment, and education.

He also pointed some of the current challenges in computer vision research that include deep learning models, generative models, self-supervised learning and natural language<sup>1</sup> and the value of the market in computer vision technology is predicted to hit \$48 billion by the end of 2022.

In week 4, Dr.Meenakshi H.N, Senior Principal Consultant -Learning, Data Science Unit, ETA, Infosys gave a session on “Generative AI “ on 28/04/2023 from 3 pm to 4pm. 40 final year students attended the webinar.

He demonstrated generative AI - a type of artificial intelligence technology that can produce various types of content including text, images, audio and synthetic data. Also, generative AI tools such as ChatGPT, Bard, Dall- E offer new ways to engage students in critical thinking, writing and analysis.

He discussed the difference between generative AI and AI as generative AI uses neural network techniques such as transformers, GANs and VAEs. AI uses convolutional neural networks, recurrent neural networks and reinforcement learning.

The following topics were discussed during the session

- Use cases for generative AI
- Benefits of Generative AI
- Limitations of AI
- Examples of Generative AI



WEEK1 -06/04/2023



# BITES Expert Series

## Generative AI : A Brief Introduction

**Expert : Ashish Rathi**  
*Chief Architect Technology*  
*Digital Strategy & Innovation, CIO Office*  
*Persistent Systems*

**Date: 6<sup>th</sup> April 2023, Thursday**  
**Time: 3pm - 4pm**



### Brief Profile of the Speaker:

- Ashish Rathi handles Enterprise Architecture for the CIO office as Persistent driving digital transformation initiatives to support business objectives by building cutting-edge, data-driven platforms.
- With a focus on fostering a culture of innovation and technology incubation, Ashish leads efforts to modernize and adopt cutting-edge platforms across enterprise adoption groups to improve scale and efficiency in operations.
- Ashish Rathi has done his Masters in Computer Science & Engineering from State University of New York (SUNY) at Buffalo, NY, USA. He also holds a Bachelor's in Computer Engineering from Pune Institute of Computer Technology, Pune.
- With a career spanning over 20 years at Persistent Systems Ltd, Ashish has held various technology-focused roles across Delivery, Presales, CIO Office, Product Engineering and other groups.
- He has extensive experience in working in incubator labs, prototype development, and mentoring high-performant technical teams. His areas of expertise and interest include Cloud, Cloud Native Architectures, Containerization, Microservices, Enterprise Data Lakes & Machine Learning.



**Scan the QR code to attend the event**

We request you to kindly participate and also to complete the information among the requested faculty and students of your institutions.

[Link: https://www.persistent.com/events/generative-ai-brief-introduction](https://www.persistent.com/events/generative-ai-brief-introduction)



**WEEK2 -10/04/2023**



# Faculty Awareness Session

---

***Impact of Generative AI for Academia***

**Date:** 10th April 2023, Monday  
**Time :** 3 PM to 4:30 PM

---

**Coverage :**

- Breakthroughs in Generative AI, tools such as ChatGPT (OpenAI), Tabrisse, Ghostwriter (Replit), and Copilot (GitHub) can now solve non-trivial code-writing tasks better.
- Does the proliferation of such tools demand changes to pedagogy and assessment for programming courses?



***Dr Viraj Kumar***

---

**About the speaker:**

- Dr Viraj Kumar is a Visiting Professor at the Kotak-IISc AI-ML Centre at IISc Bangalore.
- He earned his PhD from the University of Illinois at Urbana-Champaign.
- He serves as Chair of ACM India's Educational Initiatives Committee.
- Prof Kumar serves on the Steering Committee of IIT Delhi's CSEdu Programme.

**Scan the QR code OR use the link to attend the event**

We request you to kindly participate and also to circulate the information among the interested faculty and students of your institutions.

**Link :** <https://zoom.us/joining/register?LJAD=1&url=https://www.zoom.us/j/9825464334?pwd=Zm9udHdldjRlYkFkdz09>





**WEEK3 -13/04/2023**



## BITES Expert Series

### Computer Vision: Challenges & Research Opportunities

**Expert : Dr. Apurba Das**  
*Technology Head*  
**Cognitive AI (IoT and DE)**  
*Yata Consultancy Services, Bangalore, India*

**Date: 13<sup>th</sup> April 2023, Thursday**  
**Time: 3pm - 4pm**



**Brief Profile of the Speaker:**

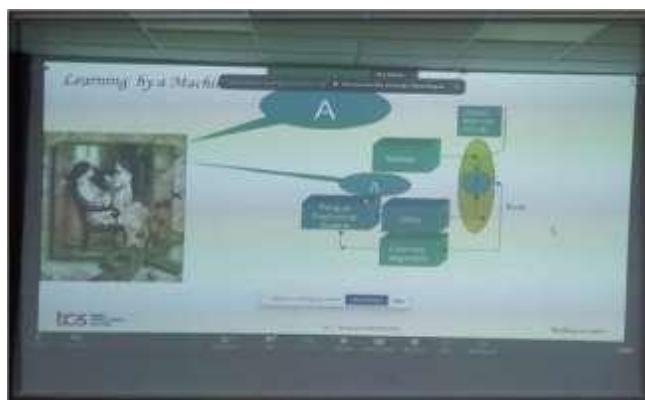
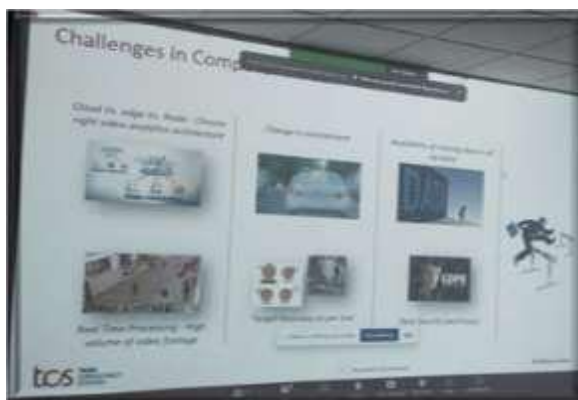
- 20 years of experience in Computer vision, Machine Learning, Deep Learning.
- Industry advisor for implementing AI & Computer vision solution to solve industry problems.
- 41 patents filed in USA, India, Europe, Japan in recent years.
- 40 published papers in reputed International Conferences and Journals.
- Sole Author of 5 Books published from Springer, Germany.
- Ph.D. in Computer Vision & Deep Learning.
- Visiting Scientist: IISc-TCS Innovation Centre, IISc, Indian Institute of Science, Bangalore.
- Keynote Speaker at different international Technical conferences.
- Member of BoS of different institutes and reviewer of prestigious journals.
- Blogger at IISc website.
- Previous Associations: Indian Statistical Institute: CDAC; Xerox Corp. as Scientist.

**Scan the QR code to attend the event**



We request you to kindly participate and also to circulate the information among the interested faculty and students of your institutions.

[Link: https://www.yataconsultancy.com/Events/Conference/2023/04/13/13th-April-2023-Dr-Apurba-Das-1644382836284000](https://www.yataconsultancy.com/Events/Conference/2023/04/13/13th-April-2023-Dr-Apurba-Das-1644382836284000)





**WEEK 4 -28/04/2023**

**BITES** BITES Expert Series

## Generative AI

Expert: **Dr. Meenakshi H N**  
Senior Principal Consultant - Learning  
Data Science Unit, ETA,  
Infosys

Date: **28<sup>th</sup> April 2023, Friday**  
Time: **3pm - 4pm**



**Brief Profile of the Speaker:**

- She has proven experience in planning and managing the training to build competency in the employees in Production Units, clients and three fresh hires of Infosys in Machine Learning, Deep learning, Computer Vision, and Natural language Processing technologies.
- She has over two decades of varied experience in both IT industry and the academia.
- Her research area is Pattern Recognition and Machine Learning and has published few research articles in national and international journals.

Scan the QR code to attend the event

We request you to kindly participate and also to circulate the information among the interested faculty and students of your institutions.

<https://www.udacity.com/course/ai-for-everyone-learn-to-use>







S J P N Trust's

**Hirasugar Institute of Technology, Nidasoshi.**

Inculcating Values, Promoting Prosperity

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

Recognized under 2(f) &amp; 12B of UGC Act, 1956

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

CSE Dept.

STAC

Codeathon-22

2022-23 (Odd)

**Activity Report**

<b>Date and Time</b>	16 <sup>th</sup> Dec. 2022 at 02.00PM
<b>Name of Activity</b>	"Codeathon-2022: A coding competition"
<b>Type of Activity</b>	Coding
<b>Target Audience</b>	All CSE Students
<b>Number of students participated</b>	36
<b>Activity In-charge</b>	Prof. S. V. Manjaagi
<b>Jury Members</b>	Dr. K. B. Manwade, Dr. Mahesh G. Huddar

**About the Activity:**

STAC (Students and Teachers Association of Computer Science), Dept. of CSE has organized department level **"Codeathon-2022: A coding competition"**, in order to inculcate the problem solving, programming and teamwork skills among the students.

A total of 18 student teams from 3<sup>rd</sup>, 5<sup>th</sup> & 7<sup>th</sup> have participated in the competition. The screening test based on 'C' programming language is conducted. Top 10 teams from screening round have been shortlisted for the Coding contest round, which involves the solving of given problems using 'C' programming language. Two faculty members Dr. K. B. Manawade & Dr. Mahesh G. Huddar from our departments have served as jury members for the coding round. The teams are ranked according to the most problems solved & total time taken to solve the problems and finally, top 3 teams were declared as winners. The winners are awarded with prizes as below:

Prize	Team Name	Student Name	USN
I Cash prize of Rs. 500 & Certificate	Iron Man	i) Suraj S Patil ii) Sushilkumar Patil	2HN20CS050 2HN21CS021
II Cash prize of Rs. 300 & Certificate	Bug Diggers	i) Pradeep Kamate ii) Rohit Gadiwaddar	2HN19CS022 2HN18CS022
III Cash prize of Rs. 200 & Certificate	Achievers	i) Sanika R Patil ii) <u>Vaishnavi D</u> <u>Ghatage</u>	2HN21CS035 2HN21CS054

Sl. No.	Outcomes of the Activity	Relevance to POs/PSOs
1	To understand, analyze, and develop solutions to given problems.	PO1, PO2, PO3, PSO1
2	To implement the solutions for the given problems using 'C' programming language.	PO5, PSO1
3	To exhibit team work skills.	PO9
4.	Apply the ethical principles and commit to professional ethics.	PO8





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Codeathon-22

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## Activity Photographs:



Teams attended Screening Test in LH-III



Top 10 shortlisted teams from screening round have participated in Coding Contest



I Prize winners received cash prize of Rs. 500 & Certificate



II Prize winners received cash prize of Rs. 300 & Certificate



III Prize winners received cash prize of Rs. 200 & Certificate

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGG.**  
**"Codeathon-2022: A Coding Competition" Winners**


Prize	Team Name	Name of the Students
<b>I</b> Cash Prize of 500 & Certificate	<b>Iron Man</b>	i) Mr. Suraj S Patil ii) Mr. Sushilkumar Patil
<b>II</b> Cash Prize of 300 & Certificate	<b>Bug Diggers</b>	i) Mr. Pradeep Kamate ii) Mr. Rohit Gadivaddar
<b>III</b> Cash Prize of 200 & Certificate	<b>Achievers</b>	i) Miss. Sanika R Patil ii) Miss. Vaishnavi D Ghatage

**Hearty Congratulations to all the Winners.**  
**From: HOD, Faculty and Staff**

Prof. S. V. Manjaragi  
Activity Coordinator

Prof. S. V. Manjaragi  
HOD  
Computer Science & Engg.  
HIT, Nidasoshi




	<p align="center"><b>S J P N Trust's</b>  <b>Hirasugar Institute of Technology, Nidasoshi</b>  <i>Inculcating Values, Promoting Prosperity</i>          Approved by AICTE, Recognized by Govt. of Karnataka and Permanently Affiliated to VTU, Belagavi.  <b>Accredited at 'A' Grade by NAAC</b>  <b>Programmes Accredited by NBA: CSE&amp; ECE</b>  <b>TRAINING AND PLACEMENT CELL</b></p>	<b>TP Cell</b>
		<b>Training</b>
		<b>Training Activities</b>
		<b>2022-23</b>

## Training Activities details for AY: 2022-23

S.N.	Name of the Training	Date of Conduction	By whom	Details
1.	Free Online Certificate Courses in Machine Learning and Artificial Intelligence for computer and IT Engineering Students (4 Weeks Duration)	27/07/2022	YBI Foundation Company	Final Year, Pre-Final & 2 <sup>nd</sup> Year Circuit Branch Students
2.	Session on SAP	26/08/2022	Mr. Sanjay Arali, Tecno Connect Hub, Pune	All 4 <sup>th</sup> & 6 <sup>th</sup> Sem Students
3.	"A Free Webinar on How to get a Placement in Multinational Companies " (3 Days)	26/08/2022 To 28/08/2022	IIT Mumbai Present's	Final Year & Pre-Final Year All Branch Students
4.	Virtual Workshop - (Solving Real – World Industry Problems with Ai Computer Vision)	26/08/2022 at 10.30Am	AI Computer Vision	Final Year & Pre-Final Year All Branch Students
5.	Free- TCS Specific Training for 2023 batch Students (15 Days)	01/08/2022 To 15/08/2022	Seventh Sense Talent Solution	Final Year All Branch Students (2023 Batch)
6.	Free Online Company Specific Training for all Mass Recruiters through Place Sense ( <b>Hexaware Specific Training</b> )	01/09/2022 To 08/09/2022	Seventh Sense Talent Solution	Final Year All Branch (2023 Batch) Students
7.	Free Software Training Courses for Freshers in Manual Testing, Automation Testing, JAVA, DotNet & Python with 10+ Live Industry Projects. ( Course Duration 2 Months online mode per day 1 hour)	21/10/2022 To 07/12/2022	Besant Technologies, Bengaluru	Final Year All Branch Students (2023 Batch)
8.	Pre-Placement Training (90 hrs of CRT along with details of the "Minutes Mentor" program)	17 <sup>th</sup> & 18 <sup>th</sup> October 2022	Mr. Nikhil Vyas Genesis Trainers, Bengaluru	Final Year All Branch (2023 Batch) Students
9.	Orientation Programme Training & Placement Activities for 2023 Batch Students	19/10/2022	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	Final Year All Branch (2023 Batch)



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			<b>Training</b>
			<b>Training Activities</b>
			<b>2022-23</b>

10.	A Talk on "Career Prospects"	31/01/2023	Mr. Madhav Gitte, IAS Working as Assistant Commissioner, Chikodi	All Years ,All Branch Students of HSIT, Nidasoshi.
11.	Pre-Placement Training (30 Hours) (Training & Capaity Building Programme-Aptitude)	06/02/2023 To 11/02/2023	Mr. Anand Kanthi, Aptitude Trainer	Final Year All Branch (2023 Batch) CSE : 47 students attended ECE- 26students attended EEE -16 students attended ME -16 students attended



  
**TRAINING & PLACEMENT OFFICER**  
**Hirasugar Institute of Technology**  
**Nidasoshi- 591236, Dt.: Belgaum**