



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

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REF: VTU/BGM/BOS/New UG-PG Prog/2023-24/4865 DATE:

3 DEC 2023

CIRCULAR

Subject: Setting of the question papers concerning course outcomes and Bloom's taxonomy regarding...

Reference: Proceedings of JBOS dated 08.12.2023

The Hon'ble Vice-Chancellor's approval dated 11.12.2023

VTU/BGM/BOS/New UG-PG Prog/2023-24/4788, Dated: 11.12.2023

Dean Faculty of Engineering approval Dated 12.12.2023

Question papers are integral to the education system, serving as tools for assessment, feedback, learning, and preparation for future challenges. They contribute to the educational experience by promoting a structured and objective evaluation process. Creating a question paper that aligns with Bloom's Taxonomy is a powerful educational tool that can enhance the learning experience for students. Bloom's Taxonomy is a hierarchical framework that categorizes cognitive skills into six levels, ranging from lower-order thinking skills to higher-order thinking skills. These levels, in ascending order of complexity, are:

1. **Remembering:** Recall facts and basic concepts.
2. **Understanding:** Demonstrate comprehension and interpret information.
3. **Applying:** Use acquired knowledge in new situations or solve problems.
4. **Analyzing:** Break down information into parts and examine the relationships between them.
5. **Evaluating:** Make judgments about the value of ideas or materials.
6. **Creating:** Generate new ideas, products, or ways of viewing things.

The importance of using Bloom's Taxonomy in question papers includes:

1. **Assessment of Higher-Order Thinking Skills:** By incorporating questions at various levels of Bloom's Taxonomy, educators can assess not only students' recall of information but also their ability to analyze, synthesize, and evaluate concepts.
2. **Depth of Understanding:** Higher-order questions promote a deeper understanding of the subject matter. Students are required to go beyond rote memorization and engage with the material at a more profound level.
3. **Critical Thinking Development:** Bloom's Taxonomy emphasizes critical thinking skills. Questions designed at higher levels encourage students to think critically, solve problems, and apply their knowledge to real-world scenarios.
4. **Preparation for Real-World Challenges:** Many real-world challenges require individuals to apply knowledge, analyze situations, and create innovative solutions. Question papers aligned with Bloom's Taxonomy help prepare students for such challenges by developing these essential skills.
5. **Adaptability to Different Learning Styles:** The taxonomy provides a framework that allows for the creation of diverse question types, accommodating different learning

styles. This inclusivity ensures that a broader range of students can engage with the material effectively.

6. **Alignment with Learning Objectives:** By aligning question papers with Bloom's Taxonomy, educators can ensure that assessments directly reflect the learning objectives and goals of the course.

In summary, incorporating Bloom's Taxonomy into question papers enhances the effectiveness of assessments, promotes critical thinking, and prepares students for the challenges they may encounter in their academic and professional journeys

To improve question paper quality and attain the mentioned Course outcomes (COs) for courses/subjects, following the question paper pattern has been recommended for adoption from academic year 2023-24 by the University

1. SEE of 3 hours duration

Sl. No	Questions to be set with Bloom's taxonomy	% marks out of maximum marks 100
For 1st year of UG Programs		
01	Questions at L1 level	20 to 30 marks
02	Questions at L2 level	30 to 20 marks
	Questions from level L1 and level L2 combined should not exceed a maximum marks of 50	
03	Questions at L3 level	30 to 40 marks
04	Questions at L4 level	10 marks (Desirable)
However, if the COs of the course/subject defined will permit only the setting of the question paper up to level L3 then L3 level questions should carry a total weightage of 50% of the total question paper		
For 2nd year of UG Programs		
01	Questions at L1 level	20 marks
02	Questions at L2 level	30 marks
	Questions at level L1 and level L2 combined should not exceed the maximum mark of 50	
03	Questions at L3 level	30 marks
04	Questions at L4 level	20 marks

2. For MCQ pattern of question papers

The ability/skill enhancement courses carry a weight of one credit. The question paper pattern specified above must be adhered to, and the weightage of the marks assigned to each question can be increased appropriately when the level of the bloom taxonomy shifts from L1 to L4.

All the Principals are hereby informed to bring the content of the CIRCULAR to the notice of all faculty and students concerned. Also, the mentor/faculty coordinator has to explain /clarify to the students about COs, POs, and Bloom's Taxonomy.

Sd/-
Registrar

To,

All the Principals of Affiliated and Constituent Engineering Colleges under the ambit of 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
3. The Dean Faculty of Engineering, VTU Belagavi for information
4. The Chairpersons and Members of BoS of VTU Belagavi
5. The Chairperson and Members BoE of VTU Belagavi
6. The Special Officer, QPDS Examination Section VTU Belagavi for information.
7. The Special Officer Academic Section VTU Belagavi for information
8. Office Copy

Raw 13/12/23 B
REGISTRAR
H.



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Mech. Engg. Dept.

HOD Meeting

Agenda & Circular

AY:2024-25

ME/AY 2024-25/HOD/Meeting-Circular/39

Date: 12/08/2024

NOTICE/CIRCULAR OF MEETING-39

All the staff members are hereby informed to attend the meeting in the HOD chamber on 23/08/2024 at 03:00 PM to discuss the following agenda.

1. Minutes of previous meetings and actions taken
2. Quality Policies for CIE Questions and Rubrics
3. Mentoring and Counseling
4. Additional workload policy and distribution
5. NBA compliance and readiness
6. AIMSS & GIM Cycle
7. Faculty Development Programmes
8. Any other matter with the permission of the chair

Circulated to:

S.N.	Staff	Signature
1	Dr. K. M. Akkoli, Dept. Research, Industry-Interaction & MoUs Coordinator, Institute Dean R&D and AICTE Coordinator	
2	Prof. D. N. Inamdar, Dept. AIMSS Coordinator, Institute NBA & NIRF Coordinator	
3	Prof. M.S. Futane, Dept. AICTE-Activity, EMS & IA Test Coordinator, Institute Student Project Coordinator	
4	Prof. S.A. Goudadi, Dept. Major Project, Internship Tech.-Seminar Coordinator	
5	Dr. M. M. Shivashimpi, Dept. AIMSS Coordinator, Institute Dean Examinations	
6	Prof. M.A. Hipparagi, Dept. T&P, Alumni and Admission Coordinator, Institute News & Publicity Coordinator	
7	Prof. G.M. Zulapi, Chief Warden (Boys Hostels)	
8	Prof. Praveen Kokitkar, Dept. Elective Coordinator & Mini-Project Coordinator	
9	Prof. N. T. Kambar, SGRC, Counseling & Mentoring Coordinator	
10	Sri. V.G. Badiger, Foreman	
11	Sri. A.B. Sankeshwari, Foreman	

Dr. S.N. Topannavar

Dean (Academics) & IQAC Coordinator



Head of the Dept.
Mechanical Engg.
HSIT Nidasoshi



ME/AY 2024-25/HOD/Meeting-Proceeding/39

Date: 23/08/2024

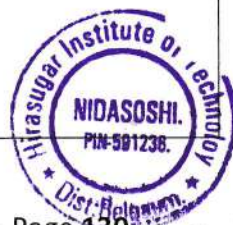
ACTIONS TAKEN REPORTS & PROCEEDINGS OF MEETING-39

A meeting of all staff members has been conducted on 23/08/2024 at 02:00 PM in HOD chamber and discussed on the following:

1. Minutes of previous meetings and actions taken
2. Quality Policies for CIE Questions and Rubrics
3. Mentoring and Counseling
4. Additional workload policy and distribution
5. NBA compliance and readiness
6. AIMSS & GIM Cycle
7. Faculty Development Programmes
8. Any other matter with the permission of the 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	<p>The minutes of HOD Meeting-38 previous meetings have been reviewed and following actions are taken:</p> <ol style="list-style-type: none"> a) Academic and Additional workloads are distributed rationally for effective teaching-learning process and activities and for improved outcomes. b) Disseminated roles and responsibilities of teacher and other responsibilities c) Faculty members and students are educated to utilize the OBE-ERP software for effective and efficient Academic Monitoring-Accountability-Assessments, Mentoring & Counseling process, Feedbacks & Surveys, Meetings, Communications etc. d) VTU 2022 scheme electives' hybrid mode awareness has been conducted by the HOD and subject expertise e) Online choices of electives are collected from the students by the Elective coordinators and are informed to the concerned Course coordinators/HODs f) Prepared awarded/sponsored, relevant and national importance project t lists and communicated to the students. g) Student project completion schedule has been prepared and published to the students for further preparation and participation h) Unnat Bharat Abhiyana (UBA)-Subject Expert Group (SEG) project proposals are prepared for technology development and customization of technology to serve the adopted villages through technological intervention. The proposals are submitted to the various UBA-SEGs through UBA portal. i) As per the VTU revised guidelines/reforms in the students' evaluation systems, innovative continuous comprehensive assessment methods are adopted. j) Formats to conduct and assess the activities are revised
2	<p>With reference to the VTU circular No. VTU/BGM/BOS/New UG-PG Prog/2023-24/4865, Dated: 13th Dec. 2023 and in view to enhance the academic performance index (API) and success index (SI) qualitatively and competitiveness among the students.</p> <p>After thorough discussion, the following RBTLs/Cognitive Levels are finalized for:</p>





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HOD Meeting

Proceedings

AY:2024-25

IAT questions:

RBTLs/Year wise weight age (UG)	I (%age)	II (%age)	III (%age)	IV (%age)
L1:Remembering	L1: 20-30	L1: 20	L1: 20	L1: 15
L2:Understanding	L2: 30-20	L2: 30	L2: 30	L2: 20
L3:Appying	L3: 30-40	L3: 30	L3: 25	L3: 35
L4:Analysing	L4: 10	L4: 20	L4: 25	L4: 30
L5: Evaluating				
L6:Creating				

Assignment questions (UG): L2:30%, L3:30%, L4:30%, L5:10-20%% & L6: 0-10%**Activities:** The activity coordinator will design based on the type of activity and level of HOTS/LOTS.

With reference to the VTU circular No. VTU/BGM/BOS/New UG-PG Prog/2023-24/4865, Dated: 13th Dec. 2023 and in view to enhance the academic performance index (API) and success index (SI) qualitatively and competitiveness among the students, the following policy parameters are discussed.

- Key Performance Indicators (KPIs)
- Revised Bloom's Taxonomy Levels (RBTLs)/Cognitive Levels in CIE questions
- Competitive rubrics for academic activities (CCAs, Projects, Internships, Activities etc.)
- Higher & Lower Order Thinking Skills (HOTS & LOTS) for RBTLs, Activities, Project & Internship work etc.
- Roles and responsibilities of Course Coordinator
- Roles and Responsibilities of Module Coordinator
- Practice of RBTLs (6 Levels) in teaching in class room interactions
- Pedagogies and innovative methods

After thorough discussion, the following RBTLs/Cognitive Levels are finalized for:

IAT questions:

RBTLs/Year (UG)	I	II	III	IV
L1:Remembering	L1: 20-30%	L1: 20%	L1: 20%	L1: 15%
L2:Understanding	L2: 30-20%	L2: 30%	L2: 30%	L2: 20%
L3:Appying	L3: 30-40%	L3: 30%	L3: 25%	L3: 35%
L4:Analysing	L4: 10%	L4: 20%	L4: 25%	L4: 30%
L5: Evaluating				
L6:Creating				

Assignment questions (UG): L2:30%, L3:30%, L4:30%, L5:10-20%% & L6: 0-10%**Activities:** The activity coordinator will design based on the type of activity and level of HOTS/LOTS expected**Project Work:****Synopsis Presentation**

S.N.	Rubrics
1.	Innovation, Relevancy & National Interest.
2.	Literature Survey, Objectives & Outcomes
3.	Methodology, HR-Material Management, Cost & Environment Consciousness.
4.	Presentation Skills & Attitude.
5.	Question & Answers.



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HOD Meeting

Proceedings

AY:2024-25

Rubrics for Progress Presentation

S.N.	Rubrics
1.	Interaction with Outside World
2.	Material and Prerequisites
3.	Design and Fabrication
4.	Presentation Skills & Attitude.
5.	Question & Answers.

Rubrics for Final Demonstration cum Exhibition

S.N.	Rubrics
1.	Working, Outcomes Achieved & National Interests/ Relevancy
2.	Report Writing Skills, Results, Analysis & Conclusion/s
3.	Cost & Environment Consciousness and Team Coordination & Management
4.	Questions & Answering
5.	Significant Achievements/ Recognitions such as: Awards, Funds/ Sponsorships, Publications, Patenting etc.

Internship Work:**Rubrics for Internship Report Presentation**

S.N.	Rubrics
1.	Relevancy of the internship domain and knowledge gained
2.	Realization of industry information and practices
3.	Presentation skills
4.	Report writing skills
5.	Question and Answer

Technical Seminar:**Rubrics for Technical Seminar Presentation**

S.N.	Rubrics
1.	Relevancy of the Technical Topic
2.	Presentation Skills
3.	Application
4.	Report Writing
5.	Question and Answer

Mini Project:**Rubrics for Mini Project Work Synopsis Presentation**

S.N.	Rubrics
1.	Innovation, Relevancy & National Interest.
2.	Objectives and Outcomes.
3.	Methodology and Ghant Chart of HR-Material-Finance Management.
4.	Presentation Skills & Attitude.
5.	Question & Answers.

Rubrics for Mini Project Demonstration Cum Exhibition

S.N.	Rubrics
1.	Report Writing Skills: Results, Analysis & Conclusion/s, Working, Outcomes Achieved & National Interests/ Relevancy
2.	Presentation Skills: Economy, Environment and Energy (EEE) Consciousness and Team Coordination & Management
3.	Questions & Answers

3 With reference to the previous HOD meetings, the following reforms in the mentoring & counseling

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process are discussed.

- a) Implementation of CM Cycle (Counseling & Mentoring Cycle)
- b) Preparation of Mentor-Mentee List for the AY:2024-25 rationally
- c) Academic, Personality & Career parameters in the CM Cycle
- d) Central Counseling, impact & action taken
- e) Regular documentation and authentication
- f) Impact analysis and action taken
- g) Extended mentoring and alumni participation
- h) Students' societal grievances and resolution
- i) Parent participation
- j) Roles and responsibilities of Teacher as a Mentor/Counselor
- k) Inclusion of Cooperative Learning Teams (CLTs)
- l) Holistic development
- m) Talent recognition

After thorough and logical discussion, it is decided to implement innovative reforms for holistic development of each student.

4 With reference to the previous meetings, the additional workloads are discussed and distributed.

5 With reference to the compliances mentioned by the NBA evaluation team in previous reports, the following policy parameters discussed.

- a) Redistribution of criterion conveners
- b) Essential & desirable parameters and fulfillment
- c) Rational & proper documentation on regular basis
- d) Annual self-assessment

It is decided to initiate the process on regular basis.

6 With reference to the previous HOD meeting, the following policy parameters for VTU curriculum gap identification and mitigation (GIM Cycle) are discussed.

- a) Unlearned electives as gaps
- b) Alumni and Industry Surveys/Feedback (Formal/Informal)
- c) Listing and Coding of gaps
- d) Implementation of AB-AC-AA-AR Cycle (AB: Activity Brochure, AC: Activity Conduction, AA: Assessment & AR: Activity Report)
- e) Revision of AIMSS organizing committee
- f) Mitigation Schedule (AIMSS Calendar)
- g) Assessment of Mitigation activities
- h) Contribution to POs and PSOs attainments
- i) Proper and logical documentation
- j) Professional body activities

It is decided to implement GIM Cycle rationally.

7 In view to develop staff, the following policy parameters are discussed.

- a) NEP-2020 based revised curriculum
- b) Industry trends and scenarios
- c) Relevant knowledge and skills
- d) Self-updating for changes
- e) Innovations in teaching-learning-evaluation





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HOD Meeting

Proceedings

AY: 2024-25

- f) Teacher as Trainer
- g) Promoting participation and accountability
- h) MOOCs
- i) Organizing FDPs/STTPs
- j) Handling of Emerging and Ability/Skill enhancement course
- k) Virtual labs and new softwares

All the staff members are suggested to go through at least one relevant FDP in a year.

The meeting has been concluded with vote of thanks.

We whole heartedly accepted the above proceedings of Meeting-39:


S.N.	Staff	Signature
1	Dr. K. M. Akkoli, Dept. Research, Industry-Interaction & MoUs Coordinator, Institute Dean R&D and AICTE Coordinator	
2	Prof. D. N. Inamdar, Dept. AIMSS Coordinator, Institute NBA & NIRF Coordinator	
3	Prof. M.S. Futane, Dept. AICTE-Activity, EMS & IA Test Coordinator, Institute Student Project Coordinator	
4	Prof. S.A. Goudadi, Dept. Major Project, Internship Tech.-Seminar Coordinator	
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6	Prof. M.A. Hipparagi, Dept. T&P, Alumni and Admission Coordinator, Institute News & Publicity Coordinator	
7	Prof. G.M. Zulapi, Chief Warden (Boys Hostels)	
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9	Prof. N. T. Kambar, SGRC, Counseling & Mentoring Coordinator	
10	Sri. V.G. Badiger, Foreman	
11	Sri. A.B. Sankeshwari, Foreman	

23/08/2024
Dr. S.N. Topannavar

Dean (Academics) & IQAC Coordinator

Head of the Dept.
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			Academics
			Pedagogy
			AY:2023-24

Categorization & Benchmarks of III Sem. Students

(Ref: HOD Meeting-37, No.: ME/AY 2023-24/HOD/Meeting-Proceeding/37, Dated: 19/01/2024)

Objectives: Attainment of employment and best performance in CIE & VTU SEE through Counseling & Mentoring and Class room dynamics based pedagogical initiatives, learner centric methods and innovative teaching aids, excellence in teaching-learning process and 360° comprehensive personality development.

S.N.	Name	USN	Mobile No.	BMP* (%age)	CLT**	Categorization ***	Faculty Mentor
1	Aditya A Yadav Alias Upalane	2HN22ME002	7026724220	75	HW	VFL	PMK
2	Basavaraj Gharabude	2HN22ME004	8867350890	55	PS	MSL	PMK
3	Bavache Sohan Santosh	2HN22ME005	9902021012	50	HW	MSL	PMK
4	Darshan Kavalikatti	2HN22ME006	7338083429	60	HW	MFL	PMK
5	Laxmi Rama Gulli	2HN22ME008	9036152373	75	SMA	VFL	PMK
6	Madankumar R Malaj	2HN22ME009	8660143628	65	PS	MFL	PMK
7	Magdum Satej Suresh	2HN22ME010	9420776837	60	HW	MFL	PMK
8	Shridhar Goudadi	2HN22ME011	8747957160	50	PS	MSL	PMK
9	Swapnil Sutar	2HN22ME012	8088240230	50	HW	MSL	PMK
10	Swarupa Patil	2HN22ME013	9741348443	50	SMA	MSL	PMK
11	Vaishnavi A Shirasangi	2HN22ME014	7411727197	55	SMA	MSL	PMK
12	Vivek M. Khopade	2HN22ME016	8139969612	55	PS	MSL	PMK
13	Aasim S Mulla	2HN23ME400	7411162343	60	AM	MFL	MAH
14	Chetan M Desai	2HN23ME401	7353955292	60	HCP	MFL	DNI
15	Darshan Anil Kakati	2HN23ME402	9113937304	70	SSB	VFL	GMZ
16	Harshal S Kabburi	2HN23ME403	7353062111	55	HCP	MSL	DNI
17	Izazahemad I Pyati	2HN23ME404	8310437086	55	AM	MSL	SNT
18	Mantesh Kulagod	2HN23ME405	8217749774	55	AM	MSL	MMS
19	Pratiba K Desai	2HN23ME406	9353254929	65	SMA	MFL	SNT
20	Praveen C Khot	2HN23ME407	9108656513	55	HCP	MSL	SAG
21	Rahul Ramu Kumbar	2HN23ME408	7483451579	55	HCP	MSL	DNI
22	Samiulla A Gaddekar	2HN23ME409	7349339970	50	AM	MSL	DNI
23	Sangamesh. B. Pated	2HN23ME410	9380266634	55	SSB	MSL	DNI
24	Shivalingayya S G	2HN23ME411	7975889352	50	SSB	MSL	DNI
25	Siddharth C Piraji	2HN23ME412	8722413076	50	HCP	MSL	DNI
26	Sourabh Kokitkar	2HN23ME413	9663845462	50	HCP	MSL	DNI
27	Sujaykumar S Patil	2HN23ME414	9916804661	50	SSB	MSL	DNI
28	Vinayak A Kukade	2HN23ME415	6360058099	60	SSB	MFL	DNI

* BMP=Bench Mark Percentage **CLT=Cooperative Learning Team

***Categorization based on diagnostic test/critical-observation/learning abilities:

VFL=Very Fast Learner, MFL=Medium Fast Learner,
VSL=Very Slow Learner, MSL=Medium Slow Learner

Class Teachers:1. Dr.K.M.Akkoli

2. Prof.P.M.Kokitkar



Dr. S.N. Topannavar
Head of the Dept.
Mechanical Engg.
HSIT Nidasoshi

Copy to: Class Teachers, Subject Teachers & Faculty Mentors



Categorization & Benchmarks of V Sem. Students
 (Ref: HOD Meeting-37, No.: ME/AY 2023-24/HOD/Meeting-Proceeding/37, Dated: 19/01/2024)



Objectives:

Attainment of employment and best performance in CIE & VTU SEE through Counseling & Mentoring and Class room dynamics based pedagogical initiatives, learner centric methods and innovative teaching aids, excellence in teaching-learning process and 360° comprehensive personality development.

R.N.	Name	USN	Mobile No.	BMP* (%age)	CLT**	Categorization ***	Faculty Mentor
1	Akash Bhovi#	2HN21ME001	8904709295	60	07	MFL	SAG
2	Kirti R Kambale	2HN21ME002	9538471654	50	07	MSL	MAH
3	Mallikarjun Shettennavar#	2HN21ME003	7026377055	80	05	VFL	SAG
4	Abhishek Bevinakoppamath	2HN22ME400	8197360660	50	04	VSL	SAG
5	Akash R Anajepatil#	2HN22ME401	9108745577	50	02	MSL	SAG
6	Akshay Gadave#	2HN22ME402	8880002203	75	04	VSL	SAG
7	Amit Harari	2HN22ME403	9731465108	40	05	LA	MAH
8	Anup S Malaj	2HN22ME404	636309307	50	01	LA	SAG
9	Basavaraj Balekundri#	2HN22ME405	6360177645	50	05	MFL	KMA
10	Bharamu A Khanapuri	2HN22ME406	8884297883	60	07	MSL	SAG
11	Bhushan U Chougala	2HN22ME407	8792312423	60	03	MSL	SAG
12	Goutam Borgalli	2HN22ME408	8746998155	70	01	MSL	SAG
13	Goutam Bongale	2HN22ME409	8904709295	60	04	MSL	SAG
14	Kumar B Khanapuri	2HN22ME410	9353264561	50	02	MSL	MMS
15	Mallikarjun I Badiger	2HN22ME411	6366039218	50	02	MSL	MMS
16	Manikhanth Sirasangi	2HN22ME412	9741539629	50	01	MSL	MMS
17	Manjunath Mugali	2HN22ME413	8431426087	50	02	MSL	MMS
18	Manoj Giddali#	2HN22ME414	9731638562	60	01	MFL	MMS
19	Nagaraj M Chougala	2HN22ME415	9731637122	50	02	VSL	MMS
20	Nikil Desai	2HN22ME416	74836921148	50	01	MSL	MMS
21	Prathamesh R Sansuddi#	2HN22ME417	9008353044	60	01	MFL	MAH
22	Praveen S Badkar#	2HN22ME418	7349427523	70	02	MFL	MMS
23	Rahul B Kanade	2HN22ME419	8549057975	40	07	LA	SNT
24	Rahul V Raikar	2HN22ME420	9535570138	40	03	LA	MAH
25	Rahul R Khanapur#	2HN22ME421	8431600923	70	07	MFL	MMS
26	Raju V Yaduri#	2HN22ME422	9980614941	70	06	MFL	MAH
27	Ramagouda Patil#	2HN22ME423	8431339592	75	03	VFL	MAH



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Pedagogy
AY:2022-23

28	Sachin B Mali	2HN22ME424	9113908396	60	06	MSL	MAH
29	Sachin B Karoshi	2HN22ME425	9071401964	40	06	LA	KMA
30	Sagar Heggannavar	2HN22ME426	9591599456	50	05	LA	MMS
31	Sameer M Makandar	2HN22ME427	6360545144	50	04	VSL	MAH
32	Sandeep Heddurshetti	2HN22ME428	9008694559	40	04	LA	GMZ
33	Sangamesh Holeyachi	2HN22ME429	9108342859	50	03	LA	SNT
34	Sanket S Honashetti	2HN22ME430	9449979762	40	06	VSL	MAH
35	Shivashankar Sankannavar	2HN22ME432	7353153484	50	02	VSL	KMA
36	Sohil A Mulla	2HN22ME433	7406238192	60	03	MSL	GMZ
37	Someshwar Madyali	2HN22ME434	7337631571	60	02	MSL	GMZ
38	Supreet G Heddurshetti	2HN22ME435	8748066366	40	04	VSL	GMZ
39	Venkatesh P Koli	2HN22ME436	9606562550	40	05	VSL	GMZ
40	Vinay M Taradale	2HN22ME437	9019322138	40	06	VSL	GMZ
41	Vinay S Hiremath#	2HN22ME438	9482937683	80	04	VFL	GMZ
42	Vinod D Khot#	2HN22ME439	6360643422	60	03	MFL	GMZ
43	Vivek Nandagavi#	2HN22ME440	8431817859	60	05	MFL	GMZ
44	Vrashabh R Galagi	2HN22ME441	7483167177	50	06	MSL	MAH

* BMP=Bench Mark Percentage

**CLT=Cooperative Learning Team:

01=Mission-23, 02=***Group, 03=PISTON, 04=TARGET,
 05=YAMAHA, 06=ENFIELD, 07=HONDA

CLT Student Mentor

***Categorization based on diagnostic test/critical observation/learning abilities:

VFL=Very Fast Learner, MFL=Medium Fast Learner,

VSL=Very Slow Learner, MSL=Medium Slow Learner and LA=Lang Absentee

Class Teachers:1. Dr.M.M.Shivasimpi

2. Prof.D.N.Inamdar

(Signature)
 19/01/2024
 Dr.S.N.Topannavar
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Mechanical Engg.
HSIT Nidasoshi

Copy to: Class Teachers, Subject Teachers & Faculty Mentors





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Ref: HSIT/MED/Mentor/2022-23/85

Date: 24/02/2023

Mentor & Mentee List for the AY: 2022-23

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2	22ME434	SOMESHWAR MADYALI	2HN22ME434	II	7337631571	someshwarmadyali13@gmail.com	Amminabhavi
3	22ME435	SUPREET G HEDDURSHETTI	2HN22ME435	II	8748066366	supreetheddurshetti@gmail.com	Sankeshwar
4	22ME436	VENKATESH P KOLI	2HN22ME436	II	9606562550	kolivenkey@gmail.com	Bedakihal
5	22ME437	VINAY M TARADALE	2HN22ME437	II	9019322138	vinaytadale2002@gmail.com	Nidasoshi
6	22ME438	VINAY S HIEMATH	2HN22ME438	II	9482937683	vinayhiremath7064@gmail.com	Sankeshwar
7	22ME439	VINOD D KHOT	2HN22ME439	II	6360643422	vkhot280@gmail.com	Kajagoudanhatti
8	22ME440	VIVEK NANDAGAVI	2HN22ME440	II	8431817859	vivek7829nandagavi@gmail.com	Gotur
9	22ME431	SHANKAR G KAMBAR#	2HN22ME431	II	9980919112	Kambar792@gmail.com	Kochari
10	22ME428	SANDEEP HEDDURSHETTI#	2HN22ME428	II	9008694559	sandeeheddurshetti12@gmail.com	Sankeshwar

G.M. Zulupi
 02/03/2023
 Copy to Mentor:

Dr. S.N. Topannavar
 24/02/23
 Dr.S.N.Topannavar

HOD
Mechanical Engg.
HIT, Nidasoshi



Principal
PRINCIPAL
Hirasugar Institute of Technology
NIDASOSHI-591236

CBCS SCHEME

USN

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BME306B

Third Semester B.E./B.Tech. Degree Examination, June/July 2024 Smart Materials and Systems

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	What are smart materials? Justify their need in present context with examples.	10	L1	CO1
	b.	State important characteristics of Smart Structures.	10	L1	CO1
OR					
Q.2	a.	Explain the classification of Smart Structures.	10	L2	CO1
	b.	Explain the application areas of Smart Systems.	10	L2	CO1
Module – 2					
Q.3	a.	List the common applications of piezo-electric materials.	10	L1	CO2
	b.	List the materials that exhibit piezo-resistive effect and state their applications.	10	L1	CO2
OR					
Q.4	a.	With a suitable sketch, explain Piezo-electric effect.	10	L2	CO2
	b.	With a suitable sketch, explain Ferroelectricity effect and mention its applications.	10	L2	CO2
Module – 3					
Q.5	a.	Explain shape memory effect with a neat sketch.	10	L2	CO3
	b.	List the advantages and disadvantages of shape memory alloys.	10	L1	CO3
OR					
Q.6	a.	Explain shape memory ceramics.	10	L2	CO3
	b.	Explain shape memory polymers.	10	L2	CO3
Module – 4					
Q.7	a.	Explain the characteristics and applications of smart polymers.	10	L2	CO4
	b.	List the advantages and disadvantages of thermo responsive polymers.	10	L1	CO4
OR					
Q.8	a.	Explain the properties and applications of electroactive polymers.	10	L2	CO4
	b.	List the advantages and disadvantages of electro active polymers.	10	L1	CO4
Module – 5					
Q.9	a.	Explain any 2 optically activated polymers.	10	L2	CO5
	b.	Explain elastic memory composites.	10	L2	CO5
OR					
Q.10		Write a note on following : i) Sensors ii) Actuators iii) Transducers iv) Chemical Gels	20	L1	CO5



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Mech. Engg. Dept.

Exam.

IA Test

AY:2023-24 (Even)

FIRST INTERNAL ASSESMENT

Class: IV Sem

Sub: Fluid Mechanics

Sub code: BME403

Date: 30/05/2024

Time: 11AM-12:00 NOON

Max Marks: 25

Note: Answer Any Two full questions

Q.No.	Bit	Description of Question	Marks	CO	RBTL						
1	a	Recognize the following substances a fluid or solids and if fluids, classify them further. The values are obtained from the isothermal tests.	07	C217.1	L3						
		Substance A				$\frac{du}{dy}$	0	1	2	3	4
						τ	0	2	4	6	8
		Substance B				$\frac{du}{dy}$	0	1	2	3	4
						τ	1	2	3	4	5
		Substance C				$\frac{du}{dy}$	0	0.5	1.0	1.5	2.0
						τ	0	1.0	2.5	4.0	6.0
		Substance D				$\frac{du}{dy}$	0	0	0	0	0
						τ	0	0.5	1	1.5	2
		Substance E				$\frac{du}{dy}$	0	1	2	3	4
τ	0		0	0	0	0					
b	Explain the following terms with SI Units: i) Weight density ii) Specific gravity iii) Viscosity	06	C217.1	L2							
OR											
2	a	Define capillarity and derive an expression for Capillary rise	07	C217.1	L2						
	b	An oil film of thickness 1.5 mm is used for lubrication between a square plate of size 0.9 m X 0.9 m and an inclined plane having an angle of lubrication 20° with the horizontal. The weight of the square plate is 392.4 N and it slides down the plane with a uniform velocity of 0.2 m/s. Find the dynamic viscosity of the oil.	06	C217.1	L3						
3	a	Define surface tension and Show that for a liquid droplet , the pressure intensity varies inversely with the diameter of the droplet.	06	C217.1	L2						
	b	If the velocity distribution over a plate is given by $u = \frac{2}{3}y - y^2$ in which ‘u’ is the velocity in meter per second at a distance ‘y’ meter above the plate. Determine the shear stress at y=0 and y=0.15m. Take dynamic viscosity of fluid as 8.63 poises.	06	C217.1	L3						
OR											
4	a	Give reasons: i) Viscosity of liquids varies with temperature ii) Rise of water in a Capillary iii) free surface of water in a capillary tube is concave	06	C217.1	L3						
	b	The space between two square flat parallel plates is filled with oil. Each side of the plates is 800 mm. Thickness of the oil film is 20 mm. The upper plate moves at a uniform velocity of 3.2 m/sec when a force of 50 N applied to upper plate. Determine: i) Shear stress ii) Dynamic viscosity of oil in poise iii) Power absorbed in moving plate iv) Kinematic viscosity of oil in stokes, if specific gravity of oil is 0.90	06	C217.1	L3						

Course Coordinator

Module Coordinator

HOD



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Exam

IA Scheme

AY: 2023-24

SCHEME OF EVALUATION IA - I

Page No : 01/01

SEM: IV	SUBJECT: Fluid Mechanics	SUBJECT CODE: BME403	DATE:		
Q. No.	Bits	DESCRIPTION	Marks	CO's	RBTL
1	a)	Sub A: Newton's liquid & Newtonian fluid	01	C217.1	L3
		Sub B: liquid & Newtonian fluid	01		
		Sub C: liquid & pseudoplastic fluid	01		
		Sub D: solid & ideal solid	01		
		Sub E: liquid & ideal fluid	01		
	b)	2 marks each. x 3	06	C217.1	L2
2	a)	Defn: Derivation of $\mu = \frac{40 \text{ cgs}}{\text{cgs}}$	07	C217.1	L2
	b)	$\mu = 0.2 \text{ m/s}$ $\mu = 0.0015 \text{ m/s}$ $\mu = 12.4 \text{ poise}$ $\mu = 165.6 \text{ N/m}^2$	06	C217.1	L3
3	a)	Defn: Derivation of $p = \frac{40}{d}$	06	C217.1	L2
	b)	$\mu = 0.57 \text{ N/m}^2$ $\mu = 0.15$	06	C217.1	L3
4	a)	i) for liquids: for gases ii) Capillary rise force balance iii) Not clean glass & water	06	C217.1	L3
	b)	i) $\mu = 78.125 \text{ N/m}^2$ ii) $\mu = 0.488 \frac{1}{\text{m}} = 4.88 \text{ poise}$ iii) $P_{\text{applied}} = 160 \text{ watts}$ iv) $\mu = 5.4 \text{ stokes} = 5.4 \times 10^{-4} \text{ m}^2/\text{sec}$	06	C217.1	L3

Module Coordinator

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Academics

Assignment

AY:2022-23 (Even)

SCRUM TEAM & ACTIVITY BASED ASSIGNMENT

Sem: I B (CSE) div.

Sub: Innovation & Design Thinking

Sub code: BIDTK258

Last date to submit: 05/08/2023

Course Coordinator: Dr.S.N.Topannavar

Max Marks: 15

Instructions:

- Answer **All allotted** questions (Refer Allocation Table) and each question carries **05 marks**.
- Scrum Team of size maximum 11 members will be formed based on the roll nos.
- Scrum Master/Product Owner and Team shall conduct design thinking meetings on the assigned Product/Process/Project/Topic etc.
- Each member of the team has to write agenda and outcome of the meeting in the yellow booklet
- Outcome of each question shall be Innovative product/process/model/thing etc.
- Assignment outcome/s has to be presented by the scrum team for evaluation as a "Continuous Comprehensive Assessment" (CCA) for 10 marks in the class on scheduled date
- The Schedule/Brochure & Evaluation Rubrics for "Class Room Presentation" will be notified separately

No.	Description of Question	CO/s	RBTL
1	Design and Develop following innovative products with the help of all 5 steps and methodologies of design thinking and also study the influence of culture while designing and developing. Explain the global market strategies and extension for the following product. A-1.1 Multi-purpose Bicycle and Smart Toys for Kids A-1.2 Competitive and affordable smart Electronic Gadget and Farmer friendly Smart Agro equipment/process A-1.3 Affordable smart medical/health care and remedial system A-1.4 Any innovative Product other than above A-1.1 to A-1.3	C128.1 & C128.2	L4
2	Model the following business (BPM) by design thinking with the help of Agile and waterfall methods and collaborations: A-2.1 Online selling of grocery items A-2.2 Application software for bank Accounts, Security and Facilities A-2.3 Farmer friendly digital agriculture and Learning Apps for Rural/Tribal Students A-2.4 Any innovative business other than above A-2.1 to A-2.3	C128.3 & C128.4	L4
3	Apply the design thinking for the following strategic innovations: A-3.1 Movable CT Scan Machine and Online Treatment A-3.2 Kids Toys and Learning Systems A-3.3 Smart House & Village A-3.4 Any strategic innovation other than above A-3.1 to A-3.3	C128.3 & C128.4	L4

Table: Scrum Team/s and Allocation of Assignment:

Scrum Team: Roll No.	Assignment Nos.	Product Owner/Scrum Master/s & Contact No.	Signature
T1: 1-11	A-1.1/ A-1.4, A-2.1/ A-2.4 & A-3.1/ A-3.4	Sanjana Kulkarni 8431069790	Sanjana
T2: 12-22	A-1.2/ A-1.4, A-2.2/ A-2.4 & A-3.2/ A-3.4	Suman .Mavinakatti 8147835289	Satti
T3:23 onwards	A-1.3/ A-1.4, A-2.3/ A-2.4 & A-3.3/ A-3.4	Ujwal Khandad 9986276511	Ujwal

Course Coordinator
(Dr.S.N.Topannavar)

Module Coordinator

HOD
(Dr.S.N.Topannavar)

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Phone: +91-8333-278887, Fax: 278888 Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in

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AIMSS

Activities: CIE-CCA

AY:2023-24

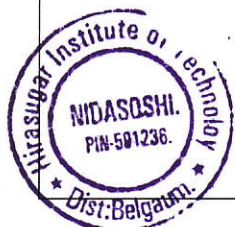
Activity BrochureDate: 21st Feb. 2024**Activity: Class Room Presentation on
"Smart Materials and their Relevancy"**

Ref: 1) 2022 VTU Scheme of Study Continuous & Comprehensive Assessment-CCA

2) Interaction and Awareness Class on "Importance of CCA in 2022 Scheme" on 19th and 20th Feb. 2024**Instructions:**

- Team leader shall conduct sufficient meeting with all members for preparation of presentation
- Team shall prepare PPT of Minimum 10 slides for minimum 10 minutes presentation individually
- Participating of all team members in PPT preparation and presentation is compulsory
- The presentation will be evaluated for 10 marks, which are considered for VTU-CIE-CCA
- The evaluation rubrics are mentioned in the following table
- Formal Dress Code-etiquette & Attendance of all members during presentation is mandatory
- Suggested to refer the videos and e-resources shared in the WhatsApp group for best preparation

Date-Time & Venue:	27 th and 29 th February 2024-02:00 PM am to 05:00 PM @ III Sem. Class Room/NBA Seminar Hall/MED Research Centre
Evaluator	Dr. S. N. Topannavar, SMS Course Coordinator, Dean (Academics) and Professor & Head, Mech. Engg. Dept.
Targeted Participants	III Sem ME students
Event Designer	Dr. S. N. Topannavar, SMS Course Coordinator, Dean (Academics) and Professor & Head, Mech. Engg. Dept
Objectives:	<ol style="list-style-type: none"> To enhance presentation skills Understand relevancy and applications of smart materials To resolve inter and multi disciplinary complex problems To understand smart properties of materials To explore society's present needs and future demands.
Outcomes:	<ol style="list-style-type: none"> Relevancy and current applications of smart materials and systems Presentation Skills Understanding and analyzing societal, industrial and space problems Smart properties and their uses Understanding smart technologies
Team Details and Topic Assignment	<p>Piezo-Ferro Team: Roll No.:01-07 Topic: "Domestic and Industrial Piezo-Ferro electric Sensors and Actuators"</p> <p>Team Leader: <u>Laxmi Rama Gulli</u> Sign: <u>[Signature]</u></p> <p>Shape Memory Team: Roll No.:08-14 Topic: "Transformation of SMAs and SMPs and Relevant Applications"</p> <p>Team Leader: <u>Swapnil Sutar</u> Sign: <u>[Signature]</u></p>



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AIMSS

Activities: CIE-CCA

AY:2023-24

Smart Polymer Team:

Roll No.:15-21

Topic: "Smart Polymers and Applications"

Team Leader: *Darshan A. Kakab*Sign: *Darshan***Azobenzene Space Team:**

Roll No.:22 onwards

Topic: "Self-healing Materials, Smart Gels and Space Applications"

Team Leader: *Pratibha K. Desai*Sign: *P. Desai***Evaluation Rubrics:**

- Smart Materials Relevancy & Current Applications (02 Marks)
- Recent trends in Smart Materials in Technologies (02 Marks)
- Team work & Preparation (02 Marks)
- Presentation Skills (02 Marks)
- Question-Answer & Conclusion (02 Marks)
- ✓ Total=10 Marks

Program Outcomes &
Program Specific
Outcomes (POs and
PSOs) Mapping
Weightage
(Low as 1-High as 3):

Programme Outcome Mapping		
PO	Particular	Weight-age
01	Engineering knowledge	3
02	Problem analysis	3
03	Design/development of solutions	3
04	Conduct investigations of complex problems	3
06	The engineer and society	3
07	Environment and sustainability	3
08	Ethics	3
09	Individual and team work	3
10	Communication	3
11	Project management and finance	3
12	Lifelong learning	3

Dr. S. N. Topannavar
Event & Course Coordinator

Dr. M. M. Shivasimpi & Prof. D. N. Inamdar
AIMSS Coordinator

HOD
Mech.-Engg.-Dept.
Head of the Dept.
Mechanical Engg.
HSIT Nidasoshi

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AIMSS & 1st Year Dept.

Activities: CIE-CCA

AY:2023-24

**Activity: Class Room Presentation on
"Smart Materials and their Relevancy"**

Ref: 1) 2022 VTU Scheme of Study Continuous & Comprehensive Assessment-CCA

2) Interaction and Awareness Class on "Importance of CCA in 2022 Scheme" on 19th and 20th Feb. 2024

Evaluator & Event Coordinator

Dr. S. N. Topannavar, SMS Course Coordinator, Dean (Academics) and
Professor & Head, Mech. Engg. Dept**Attendance cum Evaluation Sheet**

Class: III Sem ME Students

Date: 27th and 29th Feb. 2024

R.No.	Name of Student	USN (2HN)	Relevancy & Current Applications (02 marks)	Smart Materials' Technologies (02 Marks)	Team work & Preparation (02 Marks)	Presentation Skills (02 Marks)	Question-Answer & Conclusion/s (02 Marks)	Total Marks Obtained (Max. 10 Marks)	Signature
1	Abhishek R Mohite	22ME001							
2	Aditya A Yadav (Upalane)	22ME002	02	02	02	02	02	10	Aditya
3	Basavaraj Gharabude	22ME004	02	02	02	01	02	09	Basavaraj
4	Bavache Sohan Santosh	22ME005	02	02	02	02	02	10	Bavache
5	Darshan Kavalikatti	22ME006	02	02	02	01	01	08	Darshan
6	Laxmi Rama Gulli	22ME008	02	02	02	02	02	10	Laxmi
7	Madankumar R Malaj	22ME009	02	02	02	02	02	10	Madankumar
8	Magdum Satej Suresh	22ME010	02	02	02	01	01	08	Magdum
9	Shridhar Goudadi	22ME011	02	02	02	01	01	08	Shridhar
10	Swapnil Sutar	22ME012	02	02	02	02	02	10	Swapnil
11	Swarupa Patil	22ME013	02	02	02	01	02	09	Swarupa
12	Vaishnavi A Shirasangi	22ME014	02	02	02	01	02	09	Vaishnavi
13	Vivek Mahadev Khopade	22ME016	02	02	02	02	02	10	Vivek
14	Aasim S Mulla	22ME000	02	02	02	01	02	09	Aasim
15	Chetan M Desai	" 401	02	02	02	01	02	09	Chetan
16	Darshan Anil Kakati	" 402	02	02	02	02	02	10	Darshan
17	Harshal S Kabburi	" 403	02	02	02	01	01	08	Harshal
18	Izazahemad I Pyati	" 404	02	02	02	01	01	08	Izazahemad
19	Mantesh Kulagod	" 405	02	02	02	01	01	08	Mantesh
20	Pratiba K Desai	" 406	02	02	02	02	02	10	Pratiba
21	Praveen C Khot	" 407	02	02	02	01	01	08	Praveen
22	Rahul Ramu Kumbar	" 408	02	02	02	01	01	08	Rahul
23	Samiulla A Gaddekar	" 409	02	02	02	01	02	09	Samiulla
24	Sangamesh. B. Pated	" 410	02	02	02	01	02	09	Sangamesh
25	Shivalingayya S G	" 411	02	02	02	01	01	08	Shivalingayya
26	Siddharth C Piraji	" 412	02	02	02	01	01	08	Siddharth
27	Sourabh Kokitakar	" 413	02	02	02	01	02	09	Sourabh
28	Sujaykumar S Patil	" 414	02	02	02	01	02	09	Sujaykumar
29	Vinayak A Kukade	" 415	02	02	02	02	02	10	Vinayak

Dr. S. N. Topannavar

Event & Course Coordinator

Dr. M. M. Shivasimpi & Prof. D. N. Inamdar

AIMSS Coordinator

HOD

Head of the Dept.
Mech. Engg. Dept.
Mechanical Engg.
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AIMSS & 1st Year Dept.

Activities: CIE-CCA

AY:2023-24

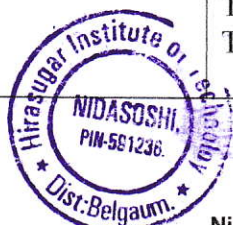
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Activity Report

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Evaluator	Dr. S. N. Topannavar, SMS Course Coordinator, Dean (Academics) and Professor & Head, Mech. Engg. Dept.
Targeted Participants	III Sem ME Students
Event Designer	Dr. S. N. Topannavar, SMS Course Coordinator, Dean (Academics) and Professor & Head, Mech. Engg. Dept
Objectives:	<ol style="list-style-type: none"> 1. To enhance presentation skills 2. Understand relevancy and applications of smart materials 3. To resolve inter and multi disciplinary complex problems 4. To understand smart properties of materials 5. To explore society's present needs and future demands.
Outcomes:	<ol style="list-style-type: none"> 1. Relevancy and current applications of smart materials and systems 2. Presentation Skills 3. Understanding and analyzing societal, industrial and space problems 4. Smart properties and their uses 5. Understanding smart technologies
Team Details and Topic Assignment	<p>Piezo-Ferro Team: Roll No.:01-07 Topic: "Domestic and Industrial Piezo-Ferro electric Sensors and Actuators" Team Leader:Miss. Laxmi Gulli</p> <p>Shape Memory Team: Roll No.:08-14 Topic: "Transformation of SMAs and SMPs and Relevant Applications" Team Leader: Mr.Swapnil Sutar</p> <p>Smart Polymer Team: Roll No.:15-21 Topic: "Smart Polymers and Applications" Team Leader: Mr.Darshan Kakati</p> <p>Azobenzene Space Team: Roll No.:22 onwards Topic: "Self-healing Materials, Smart Gels and Space Applications" Team Leader: Miss. Pratibha K Desai</p>



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Activities: CIE-CCA

AY:2023-24

Evaluation Rubrics:

- Smart Materials Relevancy & Current Applications (02 Marks)
- Recent trends in Smart Materials in Technologies (02 Marks)
- Team work & Preparation (02 Marks)
- Presentation Skills (02 Marks)
- Question-Answer & Conclusion (02 Marks)

Total=10 Marks

Mapped POs ,Weight-age assigned & %age of attainment : PO (Weight-age)

PO mapped	Weight-age assigned (1/2/3)	%age of Attainment	Level of attainment
PO1	3	88.5	2.65
PO2	3	88.0	2.64
PO3	3	88.0	2.64
PO4	3	88.5	2.65
PO6	3	88.5	2.65
PO7	3	88.5	2.65
PO8	3	88.5	2.65
PO9	3	88.0	2.64
PO10	3	80.0	2.40
PO11	3	88.0	2.64
PO12	3	88.0	2.64
PSO-1(MED)	3	88.5	2.65
PSO-1(MED)	3	88.5	2.65
PSO-1(MED)	3	88.5	2.65

Photo Gallery

Mr. Samiulla A Gaddekar and his Team Leader Miss. Pratibha Desia & other team members of Team "Azobenzene Space" have presented PPT on 27th Feb. 2024, during their presentation all students of III sem were present. Dr.S.N.Topannavar, Course Coordinator has evaluated the presentation of all students and suggested best presentation skills and tips to prepare PPT and its importance.

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Hirasugar Institute of Technology, Nidasoshi

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

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

Mech. Engg. Dept.

AIMSS & 1st Year Dept.

Activities: CIE-CCA

AY:2023-24



Team leader of Team: "Shape Memory Alloy" Mr. Swapnil Sutar and his other team members have presented their PPT on 29th Feb. 2024, during their presentation all students of III sem were present. Dr.S.N.Topannavar, Course Coordinator has evaluated the presentation of all students and suggested best presentation skills and tips to prepare PPT and its importance.



Team leader of Team: "Smart Polymer" Mr. Darshan Kakati and his other team members have presented their PPT on 27th Feb. 2024, during their presentation all students of III sem were present. Dr.S.N.Topannavar, Course Coordinator has evaluated the presentation of all students and suggested best presentation skills and tips to prepare PPT and its importance.

[Signature]
20/03/2024

Dr. S. N. Topannavar
Event & Course Coordinator

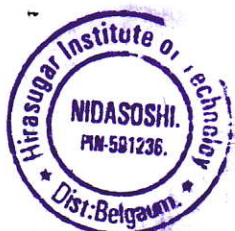
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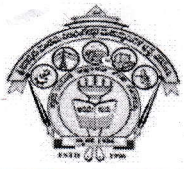
Dr.M.M.Shivasimpi & Prof. D.N.Inamdar
AIMSS Coordinator

[Signature]
20/03/2024

HOD
Mech.-Engg.-Dept.

Head of the Dept.
Mechanical Engg.
HSIT Nidasoshi





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Mech. Engg. Dept

Academics

Project Work

AY: 2024-25

Date: 19-09-2024

Schedule of Project Work(21MEP76)

(Ref.: ME/AY: 2024-25/HOD/Meeting-Proceeding/41 Dated: 11/09/2024)

With reference to the HOD Meeting-41, the 7th semester Project Work has been scheduled as below.

S.N.	Event	Date	Venue
1	Synopsis Presentation	27 th September 2024	Seminar Hall
2	Progress Presentation	8 th November 2024	
3	Final Demonstration cum Exhibition of Project Work	6 th December 2024	Work Shop Corridor

The Impotant Instructions/ Guidelines for Synopsis Presentation:

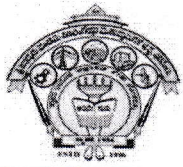
1. All the members of batch must be present during Synopsis Presentation.
2. Befor presentation submission of final synopsis(hard & soft) is mandatory.
3. Adequate interaction with guide is mandatory before any submission and presentation.
4. Synopsis and PPT should be in prescribed format and tamplate.
5. Project shall have at least one national interested outcome covering all POs & PSOs.
6. Project shall attract fund/ sponsorship and award.
7. Patentable and publication in reputed journal projects are highly encouraged.
8. Project associates shall adhere to total completion ghannt chart or plan of actions.
9. Formal dress code is compulsory during presentation.
10. The evaluation rubrics for synopsis presentation as below.

S.N.	Criteria	Max. Points
1.	Innovation, Relevancy & National Interest.	20
2.	Literature Survey, Objectives & Outcomes	20
3.	Methodology, HR-Material Management, Cost & Environment Conciousness.	20
4.	Presentation Skills & Attitude.	20
5.	Question & Answers.	20
Total Points		100

The Impotant Instructions/ Guidelines for Progress Presentation:

1. All the members of batch must be present during Progress Presentation.
2. Befor presentation submission of final roport (hard & soft) is mandatory.
3. Adequate interaction with guide is mandatory before any submission and presentation.
4. Report and PPT should be in prescribed format and tamplate.
5. PPT shall cover at least 70-80% completeion of whole project.
6. Project associates shall adhere to total completion ghannt chart or plan of actions.
7. Formal dress code is compulsory during presentation.
8. The evaluation rubrics for progress presentation as below.

S.N.	Criteria	Max. Points
1.	Interaction with Outside World	20
2.	Material and Prerequisites	20
3.	Design and Fabrication	20
4.	Presentation Skills & Attitude.	20
5.	Question & Answers.	20
Total Points		100



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Mech. Engg. Dept

Academics

Project Work

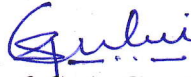
AY: 2024-25


The Important Instructions/Guidelines for Final Demonstration cum Exhibition of Project Work:

1. All the project members must be present during their project work demonstration.
2. The guide approval is compulsory for the final report and it has to produce during the demonstration.
3. The formal dress code is compulsory.
4. The demonstration will be evaluated for Max.100 Pts. as per the following evaluation rubrics.

S.N.	Criteria	Max. Points
1.	Working, Outcomes Achieved & National Interests/ Relevancy	30
2.	Report Writing Skills, Results, Analysis & Conclusion/s	20
3.	Cost & Environment Consciousness and Team Coordination & Management	20
4.	Questions & Answering	20
5.	Significant Achievements/ Recognitions such as: Awards, Funds/ Sponsorships, Publications, Patenting etc.	10
Total Points		100

NOTE: The averaged marks of Synopsis, Progress Presentation and Final Demonstration cum Exhibition of Project Work are considered as final CIE marks.



Prof. S. A. Goudadi
 Project Coordinator



Dr. S. N. Topannavar
 Head of the Dept.
 Mechanical Engg.
 HSIT Nidasoshi

Circulation to:


1. VII Sem Class.
2. Notice Board Display.
3. Guides.

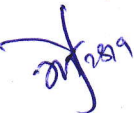


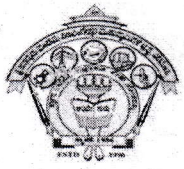

 28/09/2024


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Mech. Engg. Dept

Academics

Mini-Project
Work

AY: 2024-25

Date: 9-10-2024

Schedule of Mini-Project Work (BME586)

(Ref.: ME/AY: 2024-25/HOD/Meeting-Proceeding/41 Dated: 11/09/2024)

With reference to the HOD Meeting-41, the 5th semester Mini-Project Work has been scheduled as below.

S.N.	Event	Date	Venue
1	Synopsis Presentation	16 th October 2024	Mechanical Seminar Hall/Research Lab
2	Progress Presentation	15 th November 2024	
3	Final Demonstration cum Exhibition of Project Work	20 th December 2024	Work Shop Corridor

The Important Instructions/ Guidelines for Synopsis Presentation:

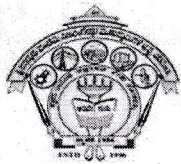
1. All the members of batch must be present during Synopsis Presentation.
2. Before presentation submission of final synopsis(hard & soft) is mandatory.
3. Adequate interaction with guide is mandatory before any submission and presentation.
4. Synopsis and PPT should be in prescribed format and template.
5. Project shall have at least one national interested outcome covering all POs & PSOs.
6. Project shall attract fund/ sponsorship and award.
7. Patentable and publication in reputed journal projects are highly encouraged.
8. Project associates shall adhere to total completion gantt chart or plan of actions.
9. Formal dress code is compulsory during presentation.
10. The evaluation rubrics for synopsis presentation as below.

S.N.	Criteria	Max. Points
1.	Innovation, Relevancy & National Interest.	20
2.	Literature Survey, Objectives & Outcomes	20
3.	Methodology, HR-Material Management, Cost & Environment Conciousness.	20
4.	Presentation Skills & Attitude.	20
5.	Question & Answers.	20
Total Points		100

The Important Instructions/ Guidelines for Progress Presentation:

1. All the members of batch must be present during Progress Presentation.
2. Before presentation submission of final report (hard & soft) is mandatory.
3. Adequate interaction with guide is mandatory before any submission and presentation.
4. Report and PPT should be in prescribed format and template.
5. PPT shall cover at least 70-80% completion of whole project.
6. Project associates shall adhere to total completion gantt chart or plan of actions.
7. Formal dress code is compulsory during presentation.
8. The evaluation rubrics for progress presentation as below.

S.N.	Criteria	Max. Points
1.	Interaction with Outside World	20
2.	Material and Prerequisites	20
3.	Design and Fabrication	20
4.	Presentation Skills & Attitude.	20
5.	Question & Answers.	20
Total Points		100



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Mech. Engg. Dept

Academics

Mini-Project
Work

AY: 2024-25

The Important Instructions/Guidelines for Final Demonstration cum Exhibition of Mini- Project Work:

1. All the project members must be present during their project work demonstration.
2. The guide approval is compulsory for the final report and it has to produce during the demonstration.
3. The formal dress code is compulsory.
4. The demonstration will be evaluated for Max.100 Pts. as per the following evaluation rubrics.

S.N.	Criteria	Max. Points
1.	Working, Outcomes Achieved & National Interests/ Relevancy	20
2.	Report Writing Skills, Results, Analysis & Conclusion/s	20
3.	Cost & Environment Consciousness and Team Coordination & Management	20
4.	Questions & Answering	20
5.	Significant Achievements/ Recognitions such as: Awards, Funds/ Sponsorships, Publications, Patenting etc.	20
Total Points		100

NOTE: The averaged marks of Synopsis, Progress Presentation and Final Demonstration cum Exhibition of Mini-Project Work are considered as final CIE marks.

Prof.

Prof. P.M.Kokitakar
Mini-Project Coordinator

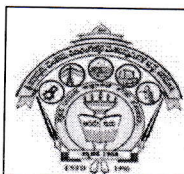


Dr. S. N. Topannavar
Dr. S. N. Topannavar

Head of the Dept.
Mechanical Engg.
HSIT Nidasoshi

Circulation to:

1. V Sem Class.
2. Notice Board Display.
3. Guides.



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Inculcating Values, Promoting Prosperity

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Mech. Engg. Dept

Academics

Internship

AY: 2023-24

Date: 05-04-2024

Schedule of Internship Report Presentation

All the final year Mechanical Engineering students are hereby informed that, the schedule of Internship report presentation is as below

Internship (18MEI85)	
Event	Date
Final report and PPT submission to the respective guide	19/04/2024
Internship Report Presentation at Research Center Mechanical Engg. Dept	20/04/2024 at 9.30am

Important Instructions:

1. The students shall present the report in PPT form only (As prescribed by their respective guide/HOD).
2. The presentation is evaluated for Max.40 marks.

Evaluation Rubrics:

- a. Relevancy of the internship domain and knowledge gained - 08 Max. Marks.
 - b. Realization of industry information and practices - 08 Max. Marks.
 - c. Presentation skills - 08 Max. Marks.
 - d. Report writing skills - 08 Max. Marks.
 - e. Question and Answer- 08 Max. Marks.
3. For each student the presentation time is minimum 10 minutes and 5 minutes for question and answer.
 4. All students are informed to maintain the presentation disciplines.

Prof. S. A. Goudadi
Internship Coordinator

Circulation to:

1. VIII Sem Class
2. Notice Board Display
3. Guides

Head of the Dept.
Mechanical Engg.
HSIT Nidasoshi



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Mech. Engg. Dept

Academics

Internship

AY: 2023-24

Date: 05-07-2024

Notice/Circular

Schedule of Internship Report Presentation

All the 6th semester Mechanical Engineering students are hereby informed that, the schedule of intemship report presentation is as below.

Internship (21INT68)
Event Date : 13/07/2024
Final Report and PPT submission to the Guide: 12/02/2024
Intemship Report Presentation at research lab mechanical engg. dept. at 9.30 pm

Important Instructions :

1. The students shall present the report in PPT form only (As prescribed by their respective guide/HOD).
2. The presentation is evaluated for Maximum 100 marks.

Evaluation Rubrics:

- a. Relevancy of the internship domain and knowledge gained - 20 Max. Marks
 - b. Takeaways from society/Entrepreneur - 20 Max. Marks
 - c. Presentation skills - 20 Max. Marks
 - d. Report writing skills - 20 Max. Marks
 - e. Question and Answer- 20 Max. Marks
3. For each student the presentation time is minimum 10 minutes and 5 minutes for question and answer.
 4. All students are informed to maintain the presentation disciplines.

Prof. S. A. Goudadi
Internship Coordinator



Dr. S. N. Topannavar

**Head of the Dept.
Mechanical Engg.
HSIT Nidasoshi**

Circulation to:

1. IV Sem Class
2. Notice Board Display
3. Guides