

Date: 11/06/2024

## Department of Mechanical Engineering

**1<sup>st</sup> Board of Studies (BoS) Meeting of Mechanical Engineering Department conducted on 11<sup>th</sup> June 2024 (Tuesday) at 10.30 am**

### Minutes of the Meeting

#### Agenda

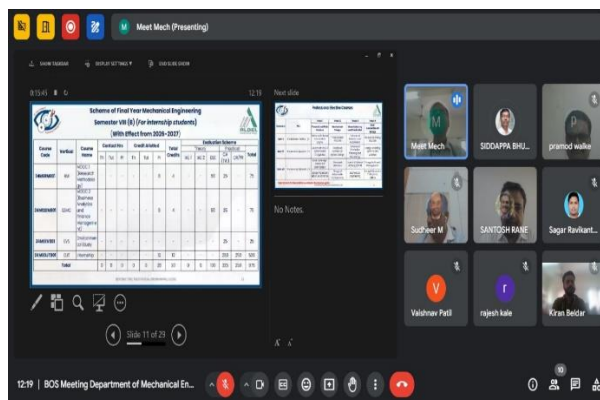
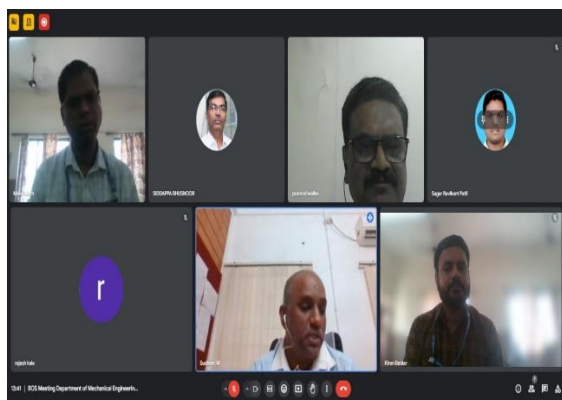
#### For approval

1. To review and discuss on Curriculum design, development, and Implementation w.r.t NEP 2020 and Autonomy requirements
2. Approval of scheme SJCEM R-24 w.e.f. 2024-25 for Academic Year 2024-25 of B.E. Mechanical Engineering Program
3. To discuss and review the Academic productivity in classroom and laboratory to meet the requirement of Outcome based Education
4. To discuss and review the Evaluation and Assessment methods and finalization for panel of Examiners for theory and lab courses for Academic Year 2024-25.
5. To review and discuss improvements required for effective teaching learning process, project quality, and semester conduct w.r.t reports received from Academic Performance Audit, NBA, and NAAC.

#### Following Members were present for BOS Meeting

Sr. No.	Name and Affiliation of BOS Members	Designation in BOS Committee	Mode of Presence in BOS Meeting
1.	Dr. Kishor Rambhad, Associate Professor & HOD, St. John College of Engineering and Management, Palghar	BOS Chairman	Offline
2.	Dr. Santosh Rane Professor, Department of Mechanical Engineering, Sardar Patel College of Engineering, Mumbai	VC Nominee, University of Mumbai	Online
3.	Dr. Sudheer M. Dean Academic Affairs Professor, Department of Mechanical Engineering, St. Joseph Engineering College, Vamanjoor, Mangalore- 575028, Karnataka, India	Subject Expert 01 Outside the parent University	Online
4.	Dr. Siddappa Bhusnoor Professor, Department of Mechanical engineering K. J. Somaiya College of Engineering, Somaiya Vidyavihar University, Vidyavihar Mumbai, Maharashtra, India	Subject Expert 02 Outside the parent University	Online

5.	Dr. Pramod Walke Dean Academics, Professor, G H Raisoni college of Engineering, Nagpur, Maharashtra, India	Subject Expert 03 Outside the parent University	Online
6.	Mr. Rajendra Fuse Director, SLC India, Palghar	Expert from Industry/corporate sector/allied areas	Online
7.	Mr. Vaishnav Patil Asst. Manager, Production Planning SEW-Eurodrive India Private Limited, Pune 410 501, Maharashtra, India.	Alumni Member	Online
8.	Dr. Rajesh Kale Dean R&D, Professor and Head Department of Mechanical Engineering, Rajiv Gandhi Institute of Technology, Versova, Andheri (W), Mumbai	Experts from outside the Autonomous College	Online
9.	Mr. Kiran Beldar, Member, Assistant Professor, Mech. Engg., SJCEM	Member	Offline
10.	Mr. Sangam Rane, Member, Assistant Professor, Mech. Engg., SJCEM	Member	Offline
11.	Mr. Chirag Kale, Member, Assistant Professor, Mech. Engg., SJCEM	Member	Offline
12.	Mr. Uday Prajapati, Member, Assistant Professor, Mech. Engg., SJCEM	Member	Offline
13.	Mr. Sagar Patil, Member, Assistant Professor, Mech. Engg., SJCEM	Member	Offline
14.	Mr. Vivek Narnaware, Member, Assistant Professor, Mech. Engg., SJCEM	Member	Offline



Initially BoS Chairman Dr. Kishor Rambhad welcomes all the members, Mr. Kiran Beldar introduced all BOS Members and initiated the meeting. Dr. Kishor Rambhad briefed the agenda of the 1<sup>st</sup> BoS meeting to all the members.

### Agenda 1

To review and discuss on Curriculum design, development, and Implementation w.r.t NEP 2020 and Autonomy requirements.

### Resolution 1

Curriculum design, development, and Implementation w.r.t NEP 2020 and Autonomy requirements reviewed and resolved that Mechanical Engineering Department follows guidelines from UGC and AICTE for credit distribution (Total 175 Credits from first year to final year).

### Agenda 2

Approval of scheme SJCEM R-24 w.e.f. A. Y. 2024-25 for B.E. Mechanical Engineering Program

### Resolution 2

SJCEM got autonomy from AY 2024-25, all students enrolled in first year in AY 2023-24 learnt same subjects as common curriculum offered by University of Mumbai under scheme REV- 2019 'C' Scheme. They all have gathered 38 credits by studying same subjects.

It is resolved in BOS meeting that all second year (Autonomous) students can be offered a new curriculum to get advantage of NEP 2020 and industry relevance. With respect to that, second year (autonomous) new scheme and syllabus is designed which will be effective from AY 2024-25. Every year as the batch progresses to new academic year scheme and syllabus will be updated.

The scheme is shown below for semester 3<sup>rd</sup> & 4<sup>th</sup>.

### Program Scheme for Second Year Mechanical Engineering Semester-III

Course Code	Vertical	Course Name	Contact Hrs.			Credit Allotted			Total Credits
			Th	Tut	Pr	Th	Tut	Pr	
24MEPCC301	PCC	Engineering Mathematics-III	2	1	-	2	1	-	3
24MEPCC302	PCC	Thermal Science and Engineering	3	-	-	3			3
24MEPCC303	PCC	Mechanics of Materials	3	-	2	3	-	1	4
24MEPCC304	PCC	Conventional and Digital Fabrication	3	-	4	3	-	2	5
24MEPCC305	PCC	Material Science and Engineering	3	-	-	3	-	-	3
24MEVEC301	VEC	Universal Human Values	2	1	-	2	1	-	3
24MEAEC301	AEC	Basic Communication Skills-II	-	1	-	-	1	-	1
<b>Total</b>			<b>16</b>	<b>3</b>	<b>6</b>	<b>16</b>	<b>3</b>	<b>3</b>	<b>22</b>

Course Code	Vertical	Course Name	Evaluation Scheme					
			IAE 1	IAE 2	ESE	CA	OR/PR	Total
24MEPCC301	PCC	Engineering Mathematics-III	20	20	60	25	-	125
24MEPCC302	PCC	Thermal Science and Engineering	20	20	60	-	-	100
24MEPCC303	PCC	Mechanics of Materials	20	20	60	25	25	150
24MEPCC304	PCC	Conventional and Digital Fabrication	20	20	60	50	50	200
24MEPCC305	PCC	Material Science and Engineering	20	20	60	-	-	100
24MEVEC301	VEC	Universal Human Values	10	10	30	25	-	75
24MEAEC301	AEC	Basic Communication Skills-II	-	-	-	25	-	25
<b>Total</b>			<b>110</b>	<b>110</b>	<b>330</b>	<b>150</b>	<b>75</b>	<b>775</b>

### Program Scheme for Second Year Mechanical Engineering Semester - IV

Course Code	Vertical	Course Name	Contact Hrs			Credit Allotted			Total Credits
			Th	Tut	Pr	Th	Tut	Pr	
24MEPCC401	PCC	Engineering Mathematics-IV	2	-	-	2	-	-	2
24MEPCC402	PCC	Fluid Mechanics and Hydraulic Machines	3	-	2	3	-	1	4
24MEPCC403	PCC	Computer Aided Design and Manufacturing	3	-	-	3	-	-	3
24MEPCC404	PCC	Industrial Electronics	2	-	2	2	-	1	3
24MEPCC405	PCC	Kinematics & Dynamics of Machines	3	-	2	3	-	1	4
24MEAEC401	AEC	Corporate Communication & Employability Skills-I	-	-	2	-	-	1	1
24MEVSE401	VSEC	Employability Enhancement Program -I (Solid Modeling & 3D Printing)	-	-	4	-	-	2	2
24MEVSE402	VSEC	Industry Certification	-	-	-	-	-	1	1
24MEOJT401	OJT	Internship-I	-	-	-	-	-	2	2
<b>Total</b>			<b>13</b>	<b>0</b>	<b>12</b>	<b>13</b>	<b>0</b>	<b>9</b>	<b>22</b>

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			Theory			Practical		
			IAE 1	IAE 2	ESE	CA	OR/PR	
24MEPCC401	PCC	Engineering Mathematics-IV	20	20	60	-	-	100
24MEPCC402	PCC	Fluid Mechanics and Hydraulic Machines	20	20	60	25	25	150
24MEPCC403	PCC	Computer Aided Design and Manufacturing	20	20	60	-	-	100
24MEPCC404	PCC	Industrial Electronics	20	20	60	25	-	125
24MEPCC405	PCC	Kinematics & Dynamics of Machines	20	20	60	25	-	125
24MEAEC401	AEC	Corporate Communication & Employability Skills-I	-	-	-	25	-	25
24MEVSE401	VSEC	Employability Enhancement Program –I (Solid Modeling & 3D Printing)	-	-	-	50	25	75
24MEVSE402	VSEC	Industry Certification	-	-	-	-	25	25
24MEOJT401	OJT	Internship-I	-	-	-	-	50	50
<b>Total</b>			<b>100</b>	<b>100</b>	<b>300</b>	<b>150</b>	<b>125</b>	<b>775</b>

Regarding third year and final year, it is resolved that, as students have gathered 50% of credits already from UOM, in REV- 2019 'C' Scheme, the academic subjects (theory & lab.) should not be modified and total credits offered in third year and final year should not be changed.

BOS members further recommended that as NEP 2020 implementation started from AY 2024-25 and it is more relevant to industry expectations with inclusion of internship, Ability Enhancement courses and vocational subjects, the existing scheme can be modified as follows

- In semester 5<sup>th</sup>, professional communication and ethics-II of 2 credits can be replaced with employability enhancement program (technical) and Mini project- 2A of 2 credits can be replaced with skill based lab with mini project (1 credit) and corporate communication and employability skill-I (1 credit)
- In semester 6<sup>th</sup>, Measurement and automation lab of 2 credits can be replaced with employability enhancement program (technical)-II, and mini project -2B of 2 credits can be replaced with industry certification (1 credit) and Internship-II (1 credit).
- In semester 7<sup>th</sup>, Major project- I of 3 credits can be replaced with Major project -I (2 credits) and corporate communication and employability skill-II (1 credit)
- In semester 8<sup>th</sup> Major project-II of 6 credits can be replace with industry certification (1credit) and major project (5 credits).

Following is the modified scheme for third year Mechanical Engineering

## Program Scheme for Third Year Mechanical Engineering Semester: V

Course Code	Vertical	Course Name	Contact Hours			Credits Allotted			Total Credit
			Th	Tu	Pr	Th	Tu	Pr	Total
24MEPCC501	PCC	Mechanical Measurements and Controls	3	-	-	3	-	-	3
24MEPCC502	PCC	Thermal Engineering	3	-	2	3	-	1	4
24MEPCC503	PCC	Dynamics of Machinery	3	-	2	3	-	1	4
24MEPCC504	PCC	Finite Element Analysis	3	-	2	3	-	1	4
24MEPEEC501X	PEC	Department Level Optional Course 1	3	-	-	3	-	-	3
24MEAEC501	AEC	Corporate Communication & Employability Skills-I	-	-	2	-	-	1	1
24MEVSEC501	VSEC	Employability Enhancement Program (Technical)	-	-	4	-	-	2	2
24MEVSEC502	VSEC	Skill Based Lab with Mini Project	-	-	2	-	-	1	1
<b>Total</b>			<b>15</b>	<b>0</b>	<b>14</b>	<b>15</b>	<b>0</b>	<b>07</b>	<b>22</b>

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			IAE 1	IAE 2	ESE	CA	OR/PR	
24MEPCC501	PCC	Mechanical Measurements and Controls	20	20	60	--	--	100
24MEPCC502	PCC	Thermal Engineering	20	20	60	25	--	125
24MEPCC503	PCC	Dynamics of Machinery	20	20	60	25	25	150
24MEPCC504	PCC	Finite Element Analysis	20	20	60	25	25	150
24MEPEEC501X	PEC	Department Level Optional Course 1	20	20	60	--	--	100
24MEAEC501	AEC	Corporate Communication & Employability Skills-I	-	-	-	25	-	25
24MEVSEC501	VSEC	Employability Enhancement Program (Technical)	-	-	-	25	--	25
24MEVSEC502	VSEC	Skill Based Lab with Mini Project	-	-	-	25	25	50
<b>Total</b>			<b>100</b>	<b>100</b>	<b>300</b>	<b>150</b>	<b>75</b>	<b>725</b>

### Department Level Optional Course

Course Code	Department Level Optional Course 1 (DLOC-1)
24MEPEEC5011	Optimization Techniques
24MEPEEC5012	Statistical Techniques
24MEPEEC5013	Computational Methods

## Program Scheme for Third Year Mechanical Engineering Semester VI

Course Code	Vertical	Course Name	Contact Hours			Credits Allotted			Total Credit
			Th	Tu	Pr	Th	Tu	Pr	Total
24MEPCC601	PCC	Machine Design	4	-	2	4	-	1	5
24MEPCC602	PCC	Turbo Machinery	3	-	2	3	-	1	4
24MEPCC603	PCC	Heating, Ventilation, Air conditioning and Refrigeration	3	-	2	3	-	1	4
24MEPCC604	PCC	Automation and Artificial Intelligence	3	-	-	3	-	-	3
24MEPEC601X	PEC	Department Level Optional Course – 2	3	-	-	3	-	-	3
24MEVSE601	VSEC	Employability Enhancement Program (Technical) - II	-	-	4	-	-	2	2
24MEVSE602	VSEC	Industry Certification	-	-	-	-	-	1	1
24MEOJT601	OJT	Internship - II	-	-	-	-	-	1	1
<b>Total</b>			<b>16</b>	<b>0</b>	<b>10</b>	<b>16</b>	<b>0</b>	<b>7</b>	<b>23</b>

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			Theory			Practical		
			IAE 1	IAE 2	ESE	CA	OR/PR	
24MEPCC601	PCC	Machine Design	20	20	60	25	25	150
24MEPCC602	PCC	Turbo Machinery	20	20	60	25	-	125
24MEPCC603	PCC	Heating, Ventilation, Air conditioning and Refrigeration	20	20	60	25	-	125
24MEPCC604	PCC	Automation and Artificial Intelligence	20	20	60	-	-	100
24MEPEC601X	PEC	Department Level Optional Course – 2	20	20	60	-	-	100
24MEVSE601	VSEC	Employability Enhancement Program (Technical) - II	-	-	-	50	-	50
24MEVSE602	VSEC	Industry Certification	-	-	-	-	25	25
24MEOJT601	OJT	Internship - II	-	-	-	-	50	50
<b>Total</b>			<b>100</b>	<b>100</b>	<b>300</b>	<b>125</b>	<b>100</b>	<b>725</b>

### Department Level Optional Course – 2

Course Code	Department Level Optional Course – 2
24MEPEC6011	Press Tool Design
24MEPEC6012	Tool Engineering
24MEPEC6013	Metal Forming Technology

### Program Scheme for Final Year Mechanical Engineering

### Semester: VII

Course Code	Vertical	Course Name	Contact Hours			Credits Allotted			Total Credit
			Th	Tu	Pr	Th	Tu	Pr	Total
24MEPCC701	PCC	Design of Mechanical System	4	-	2	4	-	1	5
24MEPCC702	PCC	Logistics and Supply Chain Management	3	-	-	3	-	-	3
24MEPEC701X	PEC	Department Level Optional Course – 3	3	-	-	3	-	-	3
24MEPEC702X	PEC	Department Level Optional Course – 4	3	-	-	3	-	-	3
24ILO701X	OE	Institute Level Optional Course – I	3	-	-	3	-	-	3
24MEVSEC701	VSEC	Maintenance Engineering	-	-	2	-	-	1	1
24MEVSEC702	VSEC	Industrial Skills	-	-	2	-	-	1	1
24MEAEC701	AEC	Corporate Communication & Employability Skills- II	-	-	2	-	-	1	1
24MEPRJ701	PRJ	Major Project I	-	-	4	-	-	2	2
<b>Total</b>			<b>16</b>	<b>0</b>	<b>12</b>	<b>16</b>	<b>0</b>	<b>6</b>	<b>22</b>

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			IAE 1	IAE 2	ESE	CA	OR/PR	
24MEPCC701	PCC	Design of Mechanical System	20	20	60	25	-	125
24MEPCC702	PCC	Logistics and Supply Chain Management	20	20	60	-	-	100
24MEPEC701X	PEC	Department Level Optional Course – 3	20	20	60	-	-	100
24MEPEC702X	PEC	Department Level Optional Course – 4	20	20	60	-	-	100
24ILO701X	OE	Institute Level Optional Course – I	20	20	60	-	-	100
24MEVSEC701	VSEC	Maintenance Engineering	-	-	-	25	25	50
24MEVSEC702	VSEC	Industrial Skills	-	-	-	25	25	50
24MEAEC701	AEC	Corporate Communication & Employability Skills- II	-	-	-	25	-	25
24MEPRJ701	PRJ	Major Project I	-	-	-	25	25	50
<b>Total</b>			<b>100</b>	<b>100</b>	<b>300</b>	<b>125</b>	<b>75</b>	<b>700</b>

### Department Optional Courses

Course Code	Sem. VII: Department Optional Course- 3	Course Code	Sem. VII: Department Optional Course - 4
24MEPEC7011	Automotive Power Systems	24MEPEC7021	Machinery Diagnostics
24MEPEC7012	Renewable Energy Systems	24MEPEC7022	Vibration Controls
24MEPEC7013	Vehicle Systems	24MEPEC7023	Advanced Vibration

### Institute Optional Courses

Course Code	Institute Optional Course-I <sup>#</sup>
24ILO7011	Product Lifecycle Management
24ILO7012	Reliability Engineering
24ILO7013	Management Information System
24ILO7014	Design of Experiments
24ILO7015	Operation Research
24ILO7016	Cyber Security and Laws
24ILO7017	Disaster Management and Mitigation Measures
24ILO7018	Energy Audit and Management
24ILO7019	Development Engineering

# Common with all branches

### Scheme for Final Year (Eighth Semester) Mechanical Engineering Semester VIII

Course Code	Vertical	Course Name	Contact Hours			Credits Allotted			Total Credit
			Th	Tu	Pr	Th	Tu	Pr	
24MEPCC801	PCC	Operations Planning and Control	3	-	-	3	-	-	3
24MEPEC801X	PEC	Department Level Optional Course – 5	3	-	-	3	-	-	3
24MEPEC802X	PEC	Department Level Optional Course– 6	3	-	-	3	-	-	3
24ILO802X	OE	Institute Level Optional Course– 2 <sup>#</sup>	3	-	-	3	-	-	3
24MEVSE803	VSEC	Product Design and Development Laboratory	-	-	2	-	-	1	1
24MEVSE802	VSEC	Laboratory based on IoT	-	-	2	-	-	1	1
24MEVSE801	VSEC	Industry Certification	-	-	-	-	-	1	1
24MEPRJ801	PRJ	Major Project-II / Internship-III	-	-	10	-	-	5	5
<b>Total</b>			<b>12</b>	<b>0</b>	<b>14</b>	<b>12</b>	<b>0</b>	<b>8</b>	<b>20</b>

Course Code	Vertical	Course Name	Evaluation Scheme					Total
			Theory			Practical		
			IAE 1	IAE 2	ESE	CA	OR/PR	
24MEPCC801	PCC	Operations Planning and Control	20	20	60	--	--	100
24MEPEC801X	PEC	Department Level Optional Course – 5	20	20	60	--	--	100
24MEPEC802X	PEC	Department Level Optional Course– 6	20	20	60	--	--	100
24ILO802X	OE	Institute Level Optional Course– 2 <sup>#</sup>	20	20	60	--	--	100
24MEVSE803	VSEC	Product Design and Development Laboratory	-	-	-	25	25	50
24MEVSE802	VSEC	Laboratory based on IoT	-	-	-	25	25	50
24MEVSE801	VSEC	Industry Certification	-	-	-	-	25	25
24MEPRJ801	PRJ	Major Project-II / Internship-III	-	-	-	75	50	125
<b>Total</b>			<b>80</b>	<b>80</b>	<b>240</b>	<b>125</b>	<b>125</b>	<b>650</b>

### Department Optional Courses

Course Code	Sem. VIII: Department Optional Course- 5	Course Code	Sem. VIII: Department Optional Course - 6
24MEPEC8011	Composite Materials	24MEPEC8021	Product Design and Development
24MEPEC8012	Smart Materials	24MEPEC8022	Design for X
24MEPEC8013	Micro Electro Mechanical Systems	24MEPEC8023	Total Quality Management

### Institute Elective Courses

Course Code	Institute Elective Course-II <sup>#</sup>
24ILO8021	Project Management
24ILO8022	Finance Management
24ILO8023	Entrepreneurship Development and Management
24ILO8024	Human Resource Management
24ILO8025	Professional Ethics and CSR
24ILO8026	Research Methodology
24ILO8027	IPR and Patenting
24ILO8028	Digital Business Management
24ILO8029	Environmental Management

# Common with all branches

All the modified schemes and syllabus (Semester 3 to 8) are forwarded to academic council for approval.

### **Agenda 3**

To discuss and review the Academic productivity in classroom and laboratory to meet the requirement of Outcome based Education

### **Resolution 3**

Academic productivity in classroom and laboratory to meet the requirement of Outcome based Education is reviewed and confirmed

Following suggestions were given:

1. Dr. Santosh Rane Suggested that two case studies and a report written by the students to be prepared for the project evaluation.
2. Dr. Siddappa Bhusnoor suggested that, subjects of Engineering Graphics and Mechanics of Materials are to be made from mechanical point of view.
3. Dr. Pramod Walke recommended that the number of modules and COs remain the same, creating a CO-PO mapping, and adding the most recent edition
4. Dr. Rajesh Kale Suggested that, monitoring required for coverage of syllabus in the preparation of question paper.
5. Dr. Sudheer M. recommended to add mini-project and laboratory-oriented courses, community or field project, industry and research internship and self-learning topics in the syllabus

### **Agenda 4**

To discuss and review the Evaluation and Assessment methods and finalization for panel of Examiners for theory and lab courses.

### **Resolution 4**

Evaluation and assessment scheme is shown in the syllabus of respective subjects. Evaluation and Assessment methods was reviewed and confirmed. Panel of Examiners for theory and lab courses was reviewed and confirmed

#### **Evaluation and Assessment Scheme:**

#### **A. Internal Assessment Examination (IAE):**

Assessment consists of two class tests, each 20 marks. The IAE 1 will cover any three Course Outcomes (COs) and IAE 2 will cover the remaining three Course Outcomes (COs). Each test will have a duration of one hour.

#### **B. End Semester Theory Examination (ESE):**

End Semester exam of 60 Marks will be conducted based on the entire syllabus.

### C. Continuous Assessment (CA) :

Continuous Assessment should consist of the following

**Experiments / Tutorials (8 to 10):** 10 marks (All COs / LOs should be covered)

**Attendance (Theory & Practical):** 05 marks

**Teacher Assessment Examination (TAE):** 10 Marks

#### List of Teacher Assessment Examination (TAE):

1. Assignment
2. Case Study
3. Debate
4. Solution for Social Problems
5. Field Visit
6. Group Project
7. Flip Classroom
8. Topic Review
9. Quiz
10. Mind Mapping
11. Any other

**Note:** Number of activities to be conducted under TAE would be as per the subject need.

### D. Oral & Practical Exam

Based on the entire syllabus, oral (10 marks) & practical/implementation (15 marks) examination will be conducted.

#### Panel of Examiner

##### Semester- III

Course Code	Vertical	Course Name	Examiner 1	Examiner 2	Examiner 3
24MEPC C301	PCC	Engineering Mathematics-III	Ms. Divya Mali, SJCEM 7057284012, divyam@sjcem.edu.in	Ms. Reshma Chavan, 98670 30907, reshmac@sjcem.edu.in	Mayur Gohil, VCET, Vasai 8355801862, mayurgohil@gmail.com
24MEPC C302	PCC	Thermal Science and Engineering	Mr. Kishor Rambhad, SJCEM 99708 55014, kishorr@sjcem.edu.in	Mr. Chirag Kale, SJCEM 99708 05852, chiragk@sjcem.edu.in	Mr. Wasim Khan, Theem College, Boisar, 98709 27885, wasimkhan1993@gmail.com
24MEPC C303	PCC	Mechanics of Materials	Mr. Sangam Rane, SJCEM 94219 24417, sangamr@sjcem.edu.in	Mr. Vinit Raut, VIT, Virar, 9860061631 vinitdraut@viva-technology.org	Dr. Kiran Jadhav VIT, Virar, 9503263892, kiranjadhavo@viva-technology.org
24MEPC C304	PCC	Conventional and Digital Fabrication	Mr. Sagar Patil, SJCEM 82374 14182, sagarrp@sjcem.edu.in	Mrs. Henisha Raut, VIT, Virar, 9323023619, henisharaut22@gmail.com	Dr. Kiran Jadhav VIT, Virar, 9503263892, kiranjadhavo@viva-technology.org

24MEPC C305	PCC	Material Science and Engineering	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.ed u.in	Mr. Kiran Beldar, SJCEM 9370874701, kiranb@sjcem.e du.in	Mr. Vinit Raut, VIT, Virar, 9860061631 vinitdraut@viva- technology.org
24MEVE C301	VEC	Universal Human Values	Ms. Suvarna More, SJCEM 7020885340 suvarnam@sjcem .edu.in	Dr. Eknath Patil, SJCEM 99211 18025, eknathp@sjcem. edu.in	Mr. Rishabh Melwanki, VCET, Vasai 9029353539 rishabhm2355@gmail.co m
24MEAE C301	AEC	Basic Communi- cation Skills - II	Ms. Beatrice Lobo, SJCEM 98216 64410, beatricel@sjcem. edu.in	Dr. Eknath Patil, SJCEM 99211 18025, eknathp@sjcem. edu.in	Mr. Rishabh Melwanki, VCET, Vasai 9029353539 rishabhm2355@gmail.co m

### Semester- IV

Course Code	Verti- cal	Course Name	Examiner 1	Examiner 2	Examiner 3
24MEPC C401	PCC	Engineering Mathemati- cs-IV	Ms. Divya Mali, SJCEM 7057284012, divyam@sjcem.ed u.in	Ms. Reshma Chavan, 98670 30907, reshmac@sjcem.edu .in	Mayur Gohil, VCET, Vasai 8355801862, mayurgohil@gmail.c om
24MEPC C402	PCC	Fluid Mechanics and Hydraulic Machines	Mr. Chirag Kale, SJCEM 99708 05852, chiragk@sjcem.ed u.in	Mr. Wasim Khan, Theem College, Boisar, +91 98709 27885, wasimkhan1993@g mail.com	Mrs. Henisha Raut, VIT, Virar, 9323023619, henisharaut22@gmai l.com
24MEPC C403	PCC	Computer Aided Design and Manufactu- ring	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.edu .in	Mr. Sangam Rane, SJCEM 94219 24417, sangamr@sjcem.edu .in	Dr. Kiran Jadhav, VIT, Virar, 9503263892, kiranjadhavo@viva- technology.org
24MEPC C404	PCC	Industrial Electronics	Ms. Oniza Sheikh, SJCEM 7776997984 onizas@sjcem.edu .in	Mr. Sandip Patil, SJCEM 9860823842 sandipp@sjcem.edu. in	Dr. Kiran Jadhav, VIT, Virar, 9503263892, kiranjadhavo@viva- technology.org
24MEPC C405	PCC	Kinematics & Dynamics of Machines	Mr. Sagar Patil, SJCEM 82374 14182, sagarpp@sjcem.ed u.in	Mr. Sangam Rane, SJCEM 94219 24417, sangamr@sjcem.edu .in	Mr. Omkar Joshi, VIT, Virar, 9503856233 omkarjoshi@viva- technology.org
24MEA EC401	AEC	Employabi- lity Enhancem- ent	Mr. Beatrice Lobo, SJCEM 98216 64410,	Dr. Eknath Patil, SJCEM 99211 18025,	Mr. Rishabh Melwanki, VCET Vasai,

		ent Program – 3 (Communication)	beatricel@sjcem.edu.in	eknathp@sjcem.edu.in	rishabhm2355@gmail.com
24MEV SE401	VSE C	Employability Enhancement Program – I (Solid Modeling & 3D Printing)	Mr. Chirag Kale, SJCEM 99708 05852, chiragk@sjcem.edu.in	Mr. Wasim Khan, Theem College, Boisar, +91 98709 27885, wasimkhan1993@gmail.com	Mrs. Henisha Raut, VIT, Virar, 9323023619, henisharaut22@gmail.com

### Semester- V

24MEPC C501	PCC	Mechanical Measurements and controls	Mr. Kiran Beldar, SJCEM 91583 46678, kiranb@sjcem.edu.in	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.edu.in	Mr. Vinit Raut, VIT, Virar, 9860061631 vinitdraut@viva-technology.org
24MEPC C502	PCC	Thermal Engineering	Dr. Kishor Rambhad, SJCEM 99708 55014, kishorr@sjcem.edu.in	Mr. Chirag Kale, SJCEM 99708 05852, chiragk@sjcem.edu.in	Dr. Kiran Jadhav, VIT, Virar, 9503263892, kiranjadhavo@viva-technology.org
24MEPC C503	PCC	Dynamics of Machinery	Mr. Sagar Patil, SJCEM 82374 14182, sagarrp@sjcem.edu.in	Mr. Aniket Patil, Universal College of Engineering, Mumbai aniketpatil@gmail.com	Mr. Omkar Joshi, VIT, Virar, 9503856233 omkarjoshi@viva-technology.org
24MEPC C504	PCC	Finite Element Analysis	Mr. Sangam Rane, SJCEM 94219 24417, sangamr@sjcem.edu.in	Mr. Vinit Raut, VIT, Virar, 9860061631 vinitdraut@viva-technology.org	Mr. Aniket Patil, Universal College, aniketpatil@gmail.com
24MEPE C5011	PEC	Optimization Techniques (DLOC1)	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.edu.in	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.edu.in	Mr. Iqbal Mansuri, Theem College of Engineering, 9405200984, iqbalmansuri789@gmail.com
24MEAE C501	AEC	Corporate Communication & Employability Skills - I	Mr. Beatrice Lobo, SJCEM 98216 64410, beatricel@sjcem.edu.in	Dr. Eknath Patil, SJCEM 99211 18025, eknathp@sjcem.edu.in	Mr. Rishabh Melwanki, VCET Vasai, rishabhm2355@gmail.com

24MEVS EC501	VSE C	Employability Enhancement Program (Technical)	Mr. Beatrice Lobo, SJCEM 98216 64410, beatricel@sjcem .edu.in	Dr. Eknath Patil, SJCEM 99211 18025, eknathp@sjcem. edu.in	Mr. Rishabh Melwanki, VCET Vasai, rishabhm2355@gmai l.com
24MEVS EC502	VSE C	Skill based lab with Mini Project	Mr. Kishor Rambhad, SJCEM 99708 55014, kishorr@sjcem.e du.in	Mr. Kiran Beldar, SJCEM 9370874701, kiranb@sjcem.e du.in	Dr. Niyati N. Raut, VIT Virar 8828393161 niyatiraut@viva- technology.org

### Semester- VI

Course Code	Verti cal	Course Name	Examiner 1	Examiner 2	Examiner 3
24MEPC C601	PCC	Machine Design	Mr. Sangam Rane, SJCEM 94219 24417, sangamr@sjcem. edu.in	Mr. Vinit Raut, VIT, Virar, 9860061631 vinitdraut@viva- technology.org	Mr. Aniket Patil, Universal College, aniketpatil@gmail.co m
24MEPC C602	PCC	Turbo Machinery	Mr. Kishor Rambhad, SJCEM 99708 55014, kishorr@sjcem.e du.in	Mr. Chirag Kale, SJCEM 99708 05852, chiragk@sjcem.e du.in	Mr. Wasim Khan, Theem College, Boisar, 98709 27885, wasimkhan1993@gm ail.com
24MEPC C603	PCC	Heating, Ventilation, Air conditioning and Refrigeration	Mr. Chirag Kale, SJCEM 99708 05852, chiragk@sjcem.e du.in	Mr. Kishor Rambhad, SJCEM 99708 55014, kishorr@sjcem.e du.in	Mr. Wasim Khan, Theem College, Boisar, 98709 27885, wasimkhan1993@gm ail.com
24MEPC C604	PCC	Automation and Artificial Intelligence	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.e du.in	Mr. Sangam Rane, SJCEM 94219 24417, sangamr@sjcem. edu.in	Mr. Vinit Raut, VIT, Virar, 9860061631 vinitdraut@viva- technology.org
24MEPE C6011	PEC	Press Tool Design	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.ed u.in	Mr. Sangam Rane, SJCEM 94219 24417, sangamr@sjcem. edu.in	Dr. Kiran Jadhav, VIT, Virar, 9503263892, kiranjadhavo@viva- technology.org
24MEPE C6012	PEC	Tool Engineering	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.ed u.in	Mr. Sangam Rane, SJCEM 94219 24417, sangamr@sjcem. edu.in	Dr. Kiran Jadhav, VIT, Virar, 9503263892, kiranjadhavo@viva- technology.org
24MEPE C6013	PEC	Metal Forming Technology	Mr. Sangam Rane, SJCEM	Mr. Uday Prajapati,	Dr. Kiran Jadhav, VIT, Virar,

			94219 24417, sangamr@sjcem. edu.in	SJCEM 91583 46678, udayp@sjcem.ed u.in	9503263892, kiranjadhavo@viva- technology.org
24MEVS E601	VSE C	Employability Enhancement Program (Technical)	Mr. Beatrice Lobo, SJCEM 98216 64410, beatricel@sjcem. edu.in	Dr. Eknath Patil, SJCEM 99211 18025, eknathp@sjcem. edu.in	Mr. Rishabh Melwanki, Vartak College, rishabhm2355@gmai l.com

### Semester- VII

24MEPCC 701	PCC	Design of Mechanical System	Mr. Sangam Rane, SJCEM 94219 24417, sangamr@sjcem. edu.in	Mr. Sagar Patil, SJCEM 82374 14182, sagarrp@sjcem.e du.in	Mr. Vinit Raut, VIT, Virar, 9860061631 vinitdraut@viva- technology.org
24MEPCC 702	PCC	Logistics and Supply Chain Management	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.e du.in	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.e du.in	Mr. Iqbal Mansuri, Theem, 9405200984, iqbalmansuri789@g mail.com
24MEPEC 7012	PEC	Renewable Energy System (DLOC-3)	Mr. Kiran Beldar, SJCEM 9370874701, kiranb@sjcem.e du.in	Mr. Chirag Kale, SJCEM 99708 05852, chiragk@sjcem. edu.in	Mrs. Henisha Raut, VIVA, 9323023619, henisharaut22@gmai l.com
24MEPEC 7023	PEC	Advanced Vibration (DLOC-4)	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.ed u.in	Mr. Sangam Rane, SJCEM 94219 24417, sangamr@sjcem .edu.in	Dr. Kiran Jadhav Viva, 9503263892, kiranjadhavo@viva- technology.org
24ILO701 8	OE	Energy Audit and Management (ILOC-I)	Mr. Chirag Kale, SJCEM 99708 05852, chiragk@sjcem. edu.in	Mr. Kiran Beldar, SJCEM 9370874701, kiranb@sjcem.e du.in	Mr. Wasim Khan, Theem College, Boisar, +91 98709 27885, wasimkhan1993@gm ail.com
24MEVSE C701	VSE C	Maintenance Engineering	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.ed u.in	Mr. Vinit Raut, VIT, Virar, 9860061631 vinitdraut@viva- technology.org	Mr. Wasim Khan, Theem College, Boisar, +91 98709 27885, wasimkhan1993@gm ail.com
24MEVSE C702	VSE C	Industrial Skills	Mr. Kishor Rambhad, SJCEM 99708 55014, kishorr@sjcem.e du.in	Dr. Kiran Jadhav, VIT Virar, 9503263892, kiranjadhavo@v iva-	Mr. Rishabh Melwanki, Vartak College, rishabhm2355@gmai l.com

				technology.org	
24MEAEC 701	AEC	Corporate Communication & Employability Skills- II	Mr. Beatrice Lobo, SJCEM 98216 64410, beatricel@sjcem.edu.in	Dr. Eknath Patil, SJCEM 99211 18025, eknathp@sjcem.edu.in	Mr. Rishabh Melwanki, Vartak College, rishabhm2355@gmail.com
24MEPRJ 701	PRJ	Major Project I	Mr. Kiran Beldar, SJCEM 9370874701, kiranb@sjcem.edu.in	Mr. Rishabh Melwanki, Vartak College, rishabhm2355@gmail.com	Dr. Niyati N. Raut, VIT Virar 8828393161 niyatiraut@viva-technology.org

### Semester- VIII

Course Code	Vertical	Course Name	Examiner 1	Examiner 2	Examiner 3
24MEPCC 801	PCC	Operations Planning and Control	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.edu.in	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.edu.in	Mr. Iqbal Mansuri, Theem, 9405200984, iqbalmansuri789@gmail.com
24MEPEC 8011	PEC	Composite Materials	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.edu.in	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.edu.in	Dr. Kiran Jadhav, VIT, Virar, 9503263892, kiranjadhavo@viva-technology.org
24MEPEC 8012	PEC	Smart Materials	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.edu.in	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.edu.in	Mr. Vinit Raut, VIT, Virar, 9860061631 vinitdraut@viva-technology.org
24MEPEC 8013	PEC	Micro Electro Mechanical Systems	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.edu.in	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.edu.in	Mr. Omkar Joshi, VIT, Virar, 9503856233 omkarjoshi@viva-technology.org
24MEPEC 8021	PEC	Product Design and Development	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.edu.in	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.edu.in	Mr. Omkar Joshi, VIT, Virar, 9503856233 omkarjoshi@viva-technology.org
24MEPEC 8022	PEC	Design for X	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.edu.in	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.edu.in	Mr. Vinit Raut, VIT, Virar, 9860061631 vinitdraut@viva-technology.org

			u.in	du.in	
24MEPEC 8023	PEC	Total Quality Management	Mr. Uday Prajapati, SJCEM 91583 46678, udayp@sjcem.ed u.in	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.e du.in	Mr. Omkar Joshi, VIT, Virar, 9503856233 omkarjoshi@viva- technology.org
24MEVSE 801	VSE C	Product Design and Development Laboratory	Mr. Vivek Narnavare, SJCEM 84839 37997, vivekn@sjcem.e du.in	Dr. Kiran Jadhav, VIT, Virar, 9503263892, kiranjadhavo@vi va- technology.org	Mr. Omkar Joshi, VIT, Virar, 9503856233 omkarjoshi@viva- technology.org
24MEVSE 802	VSE C	Laboratory based on IoT	Ms. Hiral Patel, SJCEM 9173020762 hiralp@sjcem.ed u.in	Mr. Omkar Joshi, VIT, Virar, 9503856233 omkarjoshi@viv a-technology.org	Dr. Kiran Jadhav, VIT, Virar, 9503263892, kiranjadhavo@viva- technology.org
24MEPRJ8 01	PRJ	Major Project-II	Mr. Kiran Beldar, SJCEM 9370874701, kiranb@sjcem.ed u.in	Dr. Niyati N. Raut, VIT Virar 8828393161 niyatiraut@viva- technology.org	Dr. Kiran Jadhav, VIT, Virar, 9503263892, kiranjadhavo@viva- technology.org

## Agenda 5

To review and discuss improvements required for effective teaching learning process, project quality, and semester conduct w.r.t reports received from Academic Performance Audit, NBA, and NAAC.

## Resolution 5

Improvements required for effective teaching learning process, project quality, and semester conduct w.r.t reports received from Academic Performance Audit, NBA, and NAAC is discussed and it is resolved that project based learning should improve with problem state from sustainable development goals.

Meeting was ended with vote of thanks proposed by Mr. Sagar Patil

**BOS Chairman**

**Mechanical Engineering Department**