

**NANDHA ENGINEERING COLLEGE****(Autonomous)  
ERODE- 638 052****Department of Mechanical Engineering**

NEC/MECH/DAB-01/2024-25

DATE: 5-12-2024

**CIRCULAR****Originator:** Chairman- DAB**Circulated to:** Members of DAB & All faculty members**Sub: DEPARTMENT ADVISORY BOARD (DAB) MEETING**

The DAB meeting is scheduled on 11-12-2024 to discuss the agenda listed below. In this connection, all the DAB members are requested to attend the meeting.

Date & Time of Meeting: **11.12.2022 (11.00AM)-Wednesday**

Venue: Online Meeting


**AGENDA of 1<sup>st</sup> DAB MEETING OF THE ACADEMIC YEAR 2024-2025**

AGENDA of 1 <sup>st</sup> DAB MEETING OF THE ACADEMIC YEAR 2024-2025	
Dissemination of vision and mission of the department	
VISION	<ul style="list-style-type: none"> <li>To be recognised as a centre of excellence in the field of Mechanical Engineering and to produce competent engineers with multi-disciplinary exposure to meet the changing needs of the society.</li> </ul>
MISSION	<ul style="list-style-type: none"> <li>To enrich technical knowledge and skills by imparting quality education with ethics and social responsibility.</li> <li>To empower the students in the thrust areas of Mechanical, Allied Engineering and Entrepreneurship in the continually changing global market.</li> <li>To provide a conducive learning environment for improving continually to cater the needs of the society.</li> </ul>
Item 1.01	Review of the previous PAC meeting minutes
Item 1.02	Result Analysis and attainment of the even semester 2023-24, overall attainment of the 2024 pass out batch & review of target fixed for the I year (2024 - 2025 batch)
Item 1.03	Result and attainment analysis of 2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> year and action taken
Item 1.04	Discussion on Feedback collected - Class Committee Meeting (CCM), parents meeting, Alumni and Mid semester feedback (II, III & IV year) - reports, analysis and action taken
Item 1.05	Department plan to achieve the targets and its implementation
Item 1.06	Online courses for students (NPTEL, Infosys springboard, etc...)
Item 1.07	Placement status of IV years and training plan for III years
Item 1.08	Discussion on R22 curriculum, syllabi, new regulation and curriculum(R2025)
Item 1.09	Any other matter (if any)

To

- ✓ All members of DAB,
- ✓ All Faculty members,
- ✓ File (O/o Head)

  
**CHAIRMAN-DAB**  
**HEAD OF THE DEPARTMENT**  
**DEPARTMENT OF MECHANICAL ENGINEERING,**  
**NANDHA ENGINEERING COLLEGE**  
**ERODE - 638 052.**

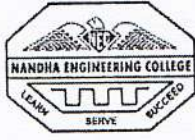
	<b>NANDHA ENGINEERING COLLEGE</b> <b>(Autonomous)</b> <b>ERODE- 638 052</b>
	<b>Department of Mechanical Engineering</b>

### MINUTES OF THE DEPARTMENT ADVISORY BOARD (DAB) MEETING

Name of the Body	DEPARTMENT ADVISORY BOARD (DAB)	
Department	Mechanical Engineering	
Meeting No.	01	2024-2025
Date & Time	11.12.2024 & 11.00 AM	
Mode	Online mode (Google meet)	

Disseminated the vision and mission of the department	
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**HEAD OF THE DEPARTMENT**  
**DEPARTMENT OF MECHANICAL ENGINEERING,**  
**NANDHA ENGINEERING COLLEGE**  
**ERODE - 638 052.**



**NANDHA ENGINEERING COLLEGE**  
(Autonomous)  
**ERODE- 638 052**

**Department of Mechanical Engineering**

The Chairman DAB, Dr. M. Muthukumar & HoD / Mechanical, welcomed the DAB members and internal members. The board considered various items of the agenda for discussion and the resolutions are given below:

Item 1.01	Review of the previous PAC meeting minutes																																								
	The previous PAC meeting minutes were reviewed. There were no comments from members.																																								
Item 1.02	Result Analysis and attainment of the even semester 2023-24, overall attainment of the 2024 pass out batch & review of target fixed for the I year (2024 - 2025 batch)																																								
Discussion	Result Analysis and attainment of the even semester 2023-24, overall attainment of the 2024 pass out batch & fix target for the I year (2024 – 2028 batch). Dr. MM presented the results of 2023-24 (even). <b>II Year – IV Semester</b>																																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course Title</th> <th>TES</th> <th>SMP</th> <th>SOM</th> <th>TOM</th> <th>PYTHON</th> <th>DCE</th> <th>NTMP</th> </tr> </thead> <tbody> <tr> <td>No of Students Passed</td> <td>58</td> <td>63</td> <td>51</td> <td>57</td> <td>16</td> <td>41</td> <td>38</td> </tr> <tr> <td>No of Students Failed</td> <td>6</td> <td>1</td> <td>13</td> <td>7</td> <td>2</td> <td>4</td> <td>0</td> </tr> <tr> <td>No of Students Absent</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Subject-wise Pass Percentage</td> <td>91</td> <td>98</td> <td>80</td> <td>89</td> <td>89</td> <td>91</td> <td>100</td> </tr> </tbody> </table>	Course Title	TES	SMP	SOM	TOM	PYTHON	DCE	NTMP	No of Students Passed	58	63	51	57	16	41	38	No of Students Failed	6	1	13	7	2	4	0	No of Students Absent	0	0	0	0	0	0	0	Subject-wise Pass Percentage	91	98	80	89	89	91	100
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22MEC09	Thermal Engineering System	Mr. S. Balakrishnan	91	52.2	42.6	45.6	72.3	71.3																																	
22MEC10	Subtractive Manufacturing Processes	Dr. N. Senniagiri	98	70.5	67.5	59.0	65.9	67.3																																	
22MEC11	Strength of Materials (Theory + Lab)	Dr. M.Manikandan	80	56.6	43.7	41.6	37.1	51.3																																	

22MEC12	Theory of Machines (Theory + Lab)	Mr.D. Ravichandran	89	37.2	58.0	66.2	58.0	50.0
22ITZ01	Python Programming	Dr. B. Ashok Kumar	89	69.7	51.1	56.7	53.3	35.6
22MEX04	Design Concepts in Engineering	Mr. N. Loganathan	91	58.8	53.6	54.9	59.6	53.4
22MEX03	Non-Traditional Machining Processes	Mr. R. Arjunraj	100	75.0	66.7	58.3	66.7	58.3

### III Year – VI Semester

Course Title	MCT	DTS	MM	AE	FC&A	3D	MCT LAB	STS
No of Students Passed	98	97	97	99	45	52	100	53
No of Students Failed	2	3	3	1	3	0	0	7
No of Students Absent	0	0	0	1	0	0	0	0
Subject wise Pass Percentage	98	97	97	99	94	100	100	88

Course Code	Course Title	Faculty Member	Pass %	CO1	CO2	CO3	CO4	CO5
17MEC17	Mechatronics	Mr.T.Venkateshan	98	50.40	62.70	60.00	70.40	78.50
		Mr.M.Mohammed Ajmal Mahasin						
17MEC18	Design of Transmission Systems	Mr. S.Eswaran	97	71.96	74.67	61.16	96.56	88.89
		Mr.B.Velliyangiri						
17MEC19	Metrology and Measurements	Mr.S.Muruganatham	97	59.70	64.40	68.20	66.60	64.60
		Dr. S.Magibalan						
17MEX16	Automobile Engineering	Mr. S. Balakrishnan	99	66.40	88.80	73.40	76.50	46.30
		Dr.M.Eswaramoorthy						
17MEX38	Fuel Cells and Applications	Dr.M.Muthukumar	94	67.10	62.00	65.00	52.00	69.60
17MEX39	3d Printing Technology	Mr.M.Sengottaiyan	100	52.10	42.00	56.00	61.70	21.70
17MEX15	Solar Thermal Systems	Mr.R.Rajkumar	88	74.20	37.40	66.80	62.30	17.10

### IV Year – VIII Semester

Course Title	PROJECT WORK II	RET
No of Students Passed	108	0
No of Students Failed	0	1
No of Students Absent	1	0
Subject wise Pass Percentage	100	0

S. No	Course Code	Course Title	Faculty Member	Pass %	CO1	CO2	CO3	CO4	CO5
1	17MED02	Project Work –II	Mr. B. Velliyangiri	100	98	98	98	98	98
			Dr. N. Senniyangiri						
2	17EEZ01	Renewable Energy Technology	Mrs. C.Pradeepa	0	64	65	70	66	74

- ✓ Dr. MM highlighted that the attainment levels of Course Outcomes (COs) for certain courses were found to be low.
- ✓ Dr. Jegadheeswaran (BIT), Mr. Manoj (Alumni), and Mr. Balasubramanian (CEO) raised concerns regarding second-year and third-year students. They noted that although students have seven subjects, only one or two subjects have attained the required COs, leaving the remaining subjects below the expected level. They questioned how this issue would be addressed during the accreditation process.
- ✓ Dr. MM explained the corrective measures taken to improve CO attainment, including the implementation of remedial classes.
- ✓ Dr. Jegadheeswaran (BIT) suggested increasing the number of industry visits.
- ✓ Dr. MM clarified that students are being engaged in hands-on training activities and industry visits at a regular frequency, in accordance with college norms.

**Overall attainment of the 2024 pass out batch**

- ✓ Dr. MM presented the attained POs and PSOs: [PO1, PO2, PO3, P04, PO5, PO11, PO12, and PSO1, PSO2].
- ✓ Dr. MM presented the POs and PSOs that were not attained: [PO6, PO7, PO8, PO9, PO10, and PSO3, PSO4].
- ✓ Dr. Jegadheeswaran (BIT), Mr. Manoj (Alumni), and Mr. Balasubramanian (CEO) sought clarification on whether the PO/PSO targets are fixed based on subject-wise targets or if there is a common target for PO-CO calculation.
- ✓ Dr. MM explained that the targets vary based on the nature of the course (theory, problem-based, or lab-oriented).

**Fixing PO target for 2024- 2028 batch:** Students entry level academic performance and previous Batch PO attainment performance were discussed in detail. It decided to fix PO attainment target for 2024- 2028 batch as 67%.

**PO1: Engineering Knowledge:** an ability to apply knowledge of Mathematics, Science and Engineering

POs	Target Level	Attainment Level	Observations
PO1	65%	75.96	Target achieved.

**PO2: Problem Analysis:** an ability to design and conduct experiments, as well as to analyze and interpret data

POs	Target Level	Attainment Level	Observations
PO2	65%	69.82	Target achieved.

**PO3: Design/ Development of Solutions:** an ability to design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, ethical, safety, manufacturability and sustainability

POs	Target Level	Attainment Level	Observations
PO3	65%	70.18	Target achieved.

<b>PO4: Conduct Investigations of Complex Problems:</b> an ability to function on multidisciplinary teams to solve complex problems			
<b>POs</b>	<b>Target Level</b>	<b>Attainment Level</b>	<b>Observations</b>
<b>PO4</b>	<b>65%</b>	65.51	Target not achieved.
<p>Action 1: Students are investigating real time problems by collecting data from literature/industry while doing their projects in the seventh and eighth semesters.</p> <p>Action 2: One subject from III semester is made as Project Based Learning subject wherein they investigate a problem based on the subject and solve the problem through project fabrication process.</p> <p>Action 3: Personality Career Development (PCD) clubs like trekking, NSS, safety, etc., helps the students to the identify the environmental problems and provide good solution for those problems.</p>			
<b>PO5: Modern Tool Usage:</b> an ability to use the techniques, skills and modern engineering tools necessary for engineering practice			
<b>POs</b>	<b>Target Level</b>	<b>Attainment Level</b>	<b>Observations</b>
<b>PO5</b>	<b>65%</b>	<b>69.76%</b>	Target achieved.
<b>PO6: The Engineer and Society:</b> an ability to infer societal, health, safety, legal & cultural issues and consequent responsibilities relevant to the professional engineering practice.			
<b>POs</b>	<b>Target Level</b>	<b>Attainment Level</b>	<b>Observations</b>
<b>PO6</b>	<b>65%</b>	<b>57.12%</b>	Target not achieved.
<p>Action 1: Awareness programs and interactive sessions are arranged for the students to act as a professional engineer considering the societal, health, safety, legal &amp; cultural issues</p> <p>Action 2: Courses like Constitution of India and Essence of Indian tradition are incorporated in the curriculum as non-credit and mandate courses guiding the students to understand their societal and safety needs during their engineering practices.</p> <p>Action 3: Students are given awareness about their requirement to the society through arranging blood donation camp and activities through NSS and other PCD clubs.</p> <p>Action 4: Students' have gone for internships in industries to understand the aspects of an engineer's work and its impact in societal, health, safety, legal &amp; cultural issues.</p>			
<b>PO7: Environment and Sustainability:</b> an ability to explain, compare and summarize the impact of engineering solutions for sustainable development with societal and environmental perspective			
<b>POs</b>	<b>Target Level</b>	<b>Attainment Level</b>	<b>Observations</b>
<b>PO7</b>	<b>65%</b>	<b>55.43%</b>	Target not achieved.
<p>Action 1: Hands on training on various Non-Destructive Techniques are given to make the students to understand the concepts of NDT.</p> <p>Action 2: Field visits to several renewable energy plants are organized. Students are guided to take up solar thermal energy related projects.</p> <p>Action 3: Students are engaged in various sustainable activities like having a rally for creating the awareness of many environmental issues.</p> <p>Action 4: MoUs have been signed with Sustainable Communities India Private Limited for enhancing technical skills related to energy management in industries.</p>			

<b>PO8: Ethics:</b> an understanding of professional and ethical responsibility			
<b>POs</b>	<b>Target Level</b>	<b>Attainment Level</b>	<b>Observations</b>
<b>PO8</b>	<b>65%</b>	<b>52.11%</b>	Target not achieved.
Action 1: Ethical practices and moral values in industries have been demonstrated during industrial visits, in-plant trainings and through industrial seminars by industrial experts.			
Action 2: Students are assigned with responsibilities as Event Coordinators/ Volunteers in organizing programs through Department association/Professional Society to learn the professional and ethical responsibilities.			
<b>PO9: Individual and Team Work:</b> an ability to function effectively as an individual / team in different environments			
<b>POs</b>	<b>Target Level</b>	<b>Attainment Level</b>	<b>Observations</b>
<b>PO9</b>	<b>65%</b>	<b>60.79%</b>	Target achieved.
Action 1: Participation in Co-curricular and Extracurricular activities as a team.			
Action 2: Group activities like symposium, intra & inter department meet were organized and students show their interest in different team activities for effective team building.			
Action 3: Opportunities are provided to students to participate in inter and intra sports competitions as individual and as a team.			
Action 4: Students were separated into batches and made to work as a team for projects during seventh and eighth semesters.			
<b>PO10: Communication:</b> an ability to communicate effectively			
<b>POs</b>	<b>Target Level</b>	<b>Attainment Level</b>	<b>Observations</b>
<b>PO10</b>	<b>65%</b>	<b>58.98%</b>	Target not achieved.
Action 1: Inter-department meet have been conducted through department association in all semesters.			
Action 2: Soft Skill- Listening and speaking; Soft Skills- Reading and Writing are introduced in the curriculum as a course to improve the communication and presentation skills.			
Action 3: Assessments like assignments, viva voce in laboratory courses are followed effectively for improving the writing and reading skills of the students.			
Action 4: Seminars/Project presentations are used as a platform to improve the communication skills.			
<b>PO11: Project Management and Finance:</b> an ability to apply knowledge of engineering and management principles to the projects			
<b>POs</b>	<b>Target Level</b>	<b>Attainment Level</b>	<b>Observations</b>
<b>PO11</b>	<b>65%</b>	<b>66.25%</b>	Target achieved.
<b>PO12: Life-long Learning:</b> an ability to recognize the need for life-long learning			
<b>Pos</b>	<b>Target Level</b>	<b>Attainment Level</b>	<b>Observations</b>
<b>PO12</b>	<b>65%</b>	<b>67.54%</b>	Target achieved.

	<p><b>PSO1:</b> Ability to design mechanical systems with required specifications using latest software packages</p> <table border="1"> <thead> <tr> <th>PSOs</th> <th>Target Level</th> <th>Attainment Level</th> <th>Observations</th> </tr> </thead> <tbody> <tr> <td>PSO1</td> <td>65%</td> <td>65.17%</td> <td>Target achieved.</td> </tr> </tbody> </table> <p><b>PSO2:</b> Ability to identify sustainable materials and technologies for alternate engineered solutions</p> <table border="1"> <thead> <tr> <th>PSOs</th> <th>Target Level</th> <th>Attainment Level</th> <th>Observations</th> </tr> </thead> <tbody> <tr> <td>PSO2</td> <td>65%</td> <td>65.60%</td> <td>Target achieved.</td> </tr> </tbody> </table> <p><b>PSO3:</b> Ability to apply the concepts and principles of manufacturing engineering to innovate and to create products and processes with sustainable manufacturing</p> <table border="1"> <thead> <tr> <th>PSOs</th> <th>Target Level</th> <th>Attainment Level</th> <th>Observations</th> </tr> </thead> <tbody> <tr> <td>PSO3</td> <td>65%</td> <td>56.06%</td> <td>Target not achieved.</td> </tr> </tbody> </table> <p>Action 1: Students take up fabrication projects and learn the product development cycle.  Action 2: Industrial visits to manufacturing companies have been organized  Action 3: One credit courses titled GD&amp;T ad Lean manufacturing have been organized in association with leading industries  Action 4: Students participate in Seminars on manufacturing technology</p>								PSOs	Target Level	Attainment Level	Observations	PSO1	65%	65.17%	Target achieved.	PSOs	Target Level	Attainment Level	Observations	PSO2	65%	65.60%	Target achieved.	PSOs	Target Level	Attainment Level	Observations	PSO3	65%	56.06%	Target not achieved.																																
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	<p><b>PSO4:</b> Ability to provide solution to challenges in the solar thermal systems</p> <table border="1"> <thead> <tr> <th>PSOs</th> <th>Target Level</th> <th>Attainment Level</th> <th>Observations</th> </tr> </thead> <tbody> <tr> <td>PSO4</td> <td>65%</td> <td>58.57%</td> <td>Target not achieved.</td> </tr> </tbody> </table> <p>Action 1: Field visits to solar systems inside the institution and other plants outside have been arranged for the students.  Action 2: Students are guided to take up solar thermal energy related projects.  Action 3: Industry supported lab namely Renewable Energy lab is established to provide experience to the students in the solar energy conversion</p>								PSOs	Target Level	Attainment Level	Observations	PSO4	65%	58.57%	Target not achieved.																																																
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Resolution	Members resolved to record the above discussion points and put forth before BoS meeting for the approval																																																															
Item 1.03	Review of result and attainment analysis of 2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> year and action taken (identification of slow learners (corrective actions), medium learners (activities for the advanced learners) and advanced learners and activities for the advanced learners.																																																															
Discussion	<table border="1"> <thead> <tr> <th colspan="8">Second Year</th> </tr> <tr> <th>Course Title</th> <th>TES</th> <th>SMP</th> <th>SOM</th> <th>TOM</th> <th>PYTHON</th> <th>DCE</th> <th>NTMP</th> </tr> </thead> <tbody> <tr> <td>No of Students Passed</td> <td>58</td> <td>63</td> <td>51</td> <td>57</td> <td>16</td> <td>41</td> <td>38</td> </tr> <tr> <td>No of Students Failed</td> <td>6</td> <td>1</td> <td>13</td> <td>7</td> <td>2</td> <td>4</td> <td>0</td> </tr> <tr> <td>No of Students Absent</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Subject-wise Pass Percentage</td> <td>91</td> <td>98</td> <td>80</td> <td>89</td> <td>89</td> <td>91</td> <td>100</td> </tr> <tr> <td>Overall Pass Percentage</td> <td colspan="7">70.31</td> </tr> </tbody> </table> <p><b>Second year slow learners</b></p> <ul style="list-style-type: none"> <li>• 20 students.</li> <li>• Students identified as a slow learner were reviewed end semester results and faculty members are ask to conduct remedial class to improve the academic performance. Further it's informed to keep all documents related to slower learners in the respective course files.</li> </ul>								Second Year								Course Title	TES	SMP	SOM	TOM	PYTHON	DCE	NTMP	No of Students Passed	58	63	51	57	16	41	38	No of Students Failed	6	1	13	7	2	4	0	No of Students Absent	0	0	0	0	0	0	0	Subject-wise Pass Percentage	91	98	80	89	89	91	100	Overall Pass Percentage	70.31						
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**Second year fast learners**

- 15 students.

Faculty member ask to motivate student to do online courses, placement training, Internship, Higher studies, participation in seminars/ workshops/conference.

Third Year							
Course Title	MCT	DTS	MM	AE	FC&A	3D	STS
No of Students Passed	98	97	97	99	45	52	53
No of Students Failed	2	3	3	1	3	0	7
No of Students Absent	0	0	0	1	0	0	0
Subject-wise Pass Percentage	98	97	97	99	94	100	88
Overall Pass Percentage	93.00						

**Third year slow learners**

- 17 students.
- Students identified as a slow learner were reviewed end semester results and faculty members are ask to conduct remedial class to improve the academic performance. Further it's informed to keep all documents related to slower learners in the respective course files.

**Third year fast learners**

- 14 students.

Faculty member ask to motivate student to do online courses, placement training, Internship, Higher studies, participation in seminars/ workshops/conference.

Resolution	Members resolved to record the above discussion points and put forth before BoS meeting for the approval						
Item 1.04	Discussion on Feedback collected - Class Committee Meeting (CCM), parents meeting, Alumni and Mid semester feedback (II, III & IV year) - reports, analysis and action taken						
Discussion	Dr. MM shared the Class Committee Meeting (CCM) feedback and Mid Semester feedback and ATR request faculty members look at to this.						
Resolution	Resolved to approve the ATR of Class Committee Meeting (CCM).						
Item 1.05	Department plan to achieve the targets and its implementation						
Discussion	Association coordinator Mr. M. Sengottaiyan present the academic activities event calendar 2024-2025						
	Month	ISTE(2)	IEI(3)	SAE(3)	SOME		
					International (1)	National (2)	State level (6)
	JULY						Association Inaugural (Week 4)
	AUG	Industrial Seminar (Week1)		Tier I Event			Academic Seminar (Week 4)
	SEP		Teachers day Sep 5, Engineers Day Sep 15				Intra Dept Meet (Week 4)

	OCT			Industrial Seminar (Week1)			Workshop (Week 4)
	NOV					SYMPOSIUM 2024 (Week 1)	
	DEC	Exam					
	JAN	Academic Seminar (Week 1)				Academic Seminar (Week 4)	
	FEB		Guest Lecture (week 1)				Industrial Seminar (Week4)
	MAR			Industrial Seminar (Week1)	International Conference /Seminar (Week 2)		
	APR						Workshop (Week) 4
	MAY	Exam					
	Count	2	3	3	1	2	6
	<ul style="list-style-type: none"> <li>✓ Dr. Jegadheeswaran (BIT), Mr. Manoj (Alumni), and Mr. Balasubramanian (CEO) asked the activities count should increases and the students visit the premium institutes and like NIT, IIT, VIT... etc.</li> <li>✓ Dr. MM explained more number of On-duty provide for visiting premium institutes</li> </ul>						
Resolution	Members resolved to record the above discussion points.						
Item 1.06	Online courses for students (NPTEL, Infosys springboard,...etc)						
Discussion	Dr.MM Presented the online courses for student's performance.						
	<b>Type of the programme</b>	<b>NPTEL Course</b>				<b>No. of Students Enrolled</b>	<b>No. of Students cleared</b>
	II YEAR	OCME020-Problem Solving through Programming in C				8	1
		OCME024 - Design Thinking - A Primer				1	1
	III YEAR	OCME019 - Air pollution and Control				67	54
		OCME020-Problem Solving through Programming in C				18	3
		OCME014 - Principles of Industrial Engineering				23	16
		OCME023 - Industrial Wastewater Treatment				3	2
		OCAI001 -Fundamentals of Artificial Intelligence				4	3
		Solar Energy Engineering and Technology				23	9
	<ul style="list-style-type: none"> <li>✓ Dr. Jegadheeswaran (BIT) inquired about the steps being taken to encourage more students to enroll in online courses.</li> <li>✓ Dr. MM clarified that faculty members are actively guiding students on the benefits of these courses, and awareness sessions are being conducted. Additionally, students who successfully complete the courses will receive recognition.</li> <li>✓ Mr. Manoj (Alumni) and Mr. Balasubramanian (CEO) asked whether faculty support is available for students enrolled in these courses.</li> <li>✓ Dr. MM responded that faculty members are assigned as mentors to assist students with their doubts and ensure they complete the courses effectively.</li> </ul>						
Resolution	Members resolved to record the above discussion points.						

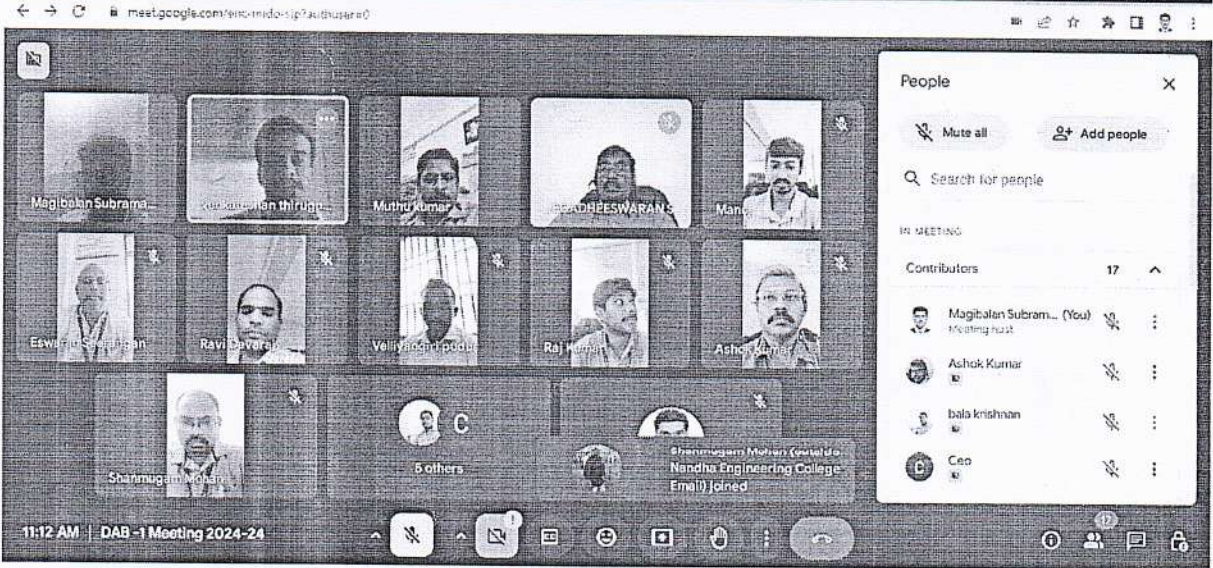
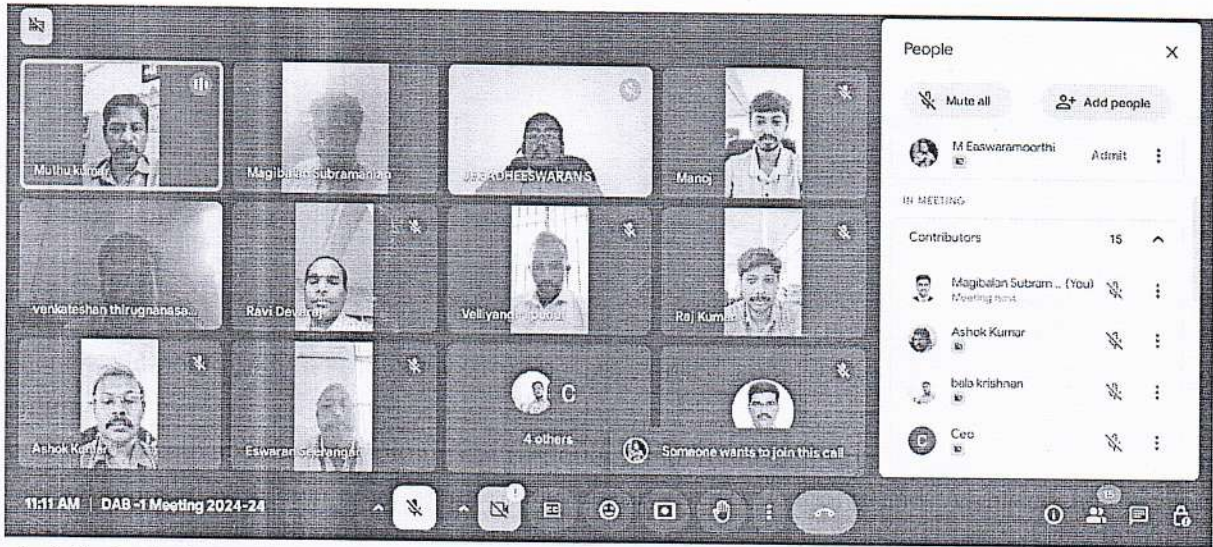
Item 1.07	Placement status of IV years and training plan for III years.
Discussion	<p>Placement co-ordinators presented the Final Year placement status</p> <p><b>CORE:</b> No. of willing – 61 No. of Placed – 10</p> <p><b>IT:</b> No. of willing – 39 No. of Placed - 02</p> <p>Placement co-ordinator inform to effect plan to the placement training activities and update the feedback of the students to the head of the department time to time.</p> <p><b><u>Students and training plan for 2022-2026 batch students</u></b> IT – 16 CORE –48</p>
Resolution	Resolved to accept and put forth to BoS.
Item 1.07	Discussion on R22 curriculum, syllabi, new regulation and curriculum (R2025)
Discussion	<p>Dr. MM presented the R22 curriculum, syllabi, and new regulations. Dr. Jegadheeswaran (BIT), Mr. Manoj (Alumni), and Mr. Balasubramanian (CEO) suggested introducing advanced technologies and AI tools in certain subjects to enhance their relevance. The proposed updates include:</p> <ul style="list-style-type: none"> <li>✓ Mechatronics &amp; IoT – Strengthen IoT integration and Industry 4.0 applications in automation.</li> <li>✓ Design of Transmission Systems – Incorporate EV transmission technologies and lightweight materials for sustainability.</li> <li>✓ Power Plant Technology – Cover emerging renewable energy technologies and carbon capture methods.</li> <li>✓ Engineering Graphics and Drafting (Theory + Lab) – Utilize AR/VR-based visualization tools for enhanced learning.</li> <li>✓ Computer-Aided Machine Drawing – Integrate cloud-based CAD platforms and real-time collaboration tools.</li> <li>✓ Thermal Engineering Systems – Focus on waste heat recovery and energy efficiency improvements.</li> <li>✓ Strength of Materials (Theory + Lab) – Implement AI-based failure prediction and analysis techniques.</li> <li>✓ Theory of Machines (Theory + Lab) – Introduce simulation-based kinematic and dynamic analysis.</li> </ul>
Resolution	Resolved to accept and put forth to BoS.
Item 1.09	Any other matter

### Summary of points:

#### The members suggestion on summary

1. Second and third-year student's attainments show low CO attainment in most subjects.
2. Members suggested increasing industry visits.
3. Students are engaged in regular hands-on training and industry visits.
4. More opportunities for students to visit premier institutes (NIT, IIT, etc.).
5. Steps to encourage more student participation in online courses.

- 6. Faculty Support for Online Courses to Concerns raised about faculty support for students in online courses.
- 7. Incorporate advanced technologies, AI tools, and industry applications in courses like Mechatronics, EV transmission, renewable energy, AR/VR tools, and AI-based analysis in various engineering subjects.



Date: 11.12.2024

Place: Erode

  
 11/12/24  
**CHAIRMAN-DAB**  
**HEAD OF THE DEPARTMENT**  
**DEPARTMENT OF MECHANICAL ENGINEERING,**  
**NANDHA ENGINEERING COLLEGE**  
**ERODE - 638 052.**