



MUTHAYAMMAL ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi, Accredited by NAAC, NBA & Affiliated to Anna University)
Rasipuram - 637 408, Namakkal Dist., Tamil Nadu.

Department of Mechanical Engineering


Minutes of 8th Board of Studies Meeting

Venue: Mech Research Centre

Date: 04.05.2024

- | Sl.No. | Members |
|--------|--|
| 1. | Dr.N.Natarajan – Chairman, Board of Studies
Professor & Head,
Department of Mechanical Engineering,
Muthayammal Engineering College,
Rasipuram-637408. |
| 2. | Dr.R.Arularasan – University Nominee
Professor,
Department of Mechanical Engineering,
UCE – BIT Campus,
Anna University,Tiruchirappalli – 620 024 |
| 3. | Dr.A.Baraniraj – External Subject Expert
Associate Professor,
Department of Mechanical Engineering
Government College of Engineering
Salem – 636011. |
| 4. | Mr. P.Anand - Industry Expert
Assistant Engineer,
Oil & Ash Handling Division,
Mettur Thermal Power Station-I, TANGEDCO Ltd,
Salem- 636406. |
| 5. | Mr. S.Aravindha Balaji - Industry Expert
Senior Consultant,
GEMBA CONCEPTS,
No.10 L Dr.Rajkumar Road below Kajaria world,
Rajajinagar ,Bengaluru- 560010. |

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Chairman-Board of Studies
Department of Mechanical Engineering
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6. **Dr.S. Sundaram - Member**
Professor & Dean/Mech-MEC
7. **Dr. K. Gunasekaran - Member**
Professor/Mech- MEC
8. **Dr. P. Suresh - Member**
Professor & Dean /Mech /MEC
9. **Dr.R.Senthil Kumar –Inter Disciplinary Member**
Professor & HoD /MZ /MEC
10. **Dr.J.Rangarajan –Inter Disciplinary Member**
Professor /ECE /MEC
11. **Dr. J. Bensamraj- Member**
Professor/Mech -MEC
12. **Dr. S. Boopathi - Member**
Professor/Mech -MEC
13. **Dr. R.Manivannan - Member**
Professor/Mech -MEC
14. **Dr. D. Velmurugan - Member**
Associate Professor/Mech - MEC
15. **Dr.T.Yuvaraj- Member**
Associate Professor/Mech - MEC
16. **Dr.S.Perumal-Member**
Assistant Professor /MZ/MEC

Agenda

- R2023- Curriculum & Syllabi (I Sem to VIII Sem) for Mechanical Engineering and Mechatronics Engineering under choice Based Credit System (CBCS).
- R2023- Curriculum & Syllabi under Choice Based Credit system (CBCS) for M.E – CAD/CAM.

Minutes of Meeting

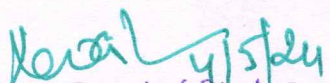
- The Chairman welcomed all the members for the 8th Board of Studies Meeting of the Mechanical Engineering Board.
- The previous meeting minutes were discussed and ratified.
- Academic Expert Suggests for CO-PO Mapping should be done using numbers.
- The members appreciated the introduction of New courses in professional core & Elective Courses in Mechanical Engineering program like:

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- Mechatronics and IoT
- Machine Learning For Intelligent Systems
- Process planning and Cost estimation
- The Contents of the following courses are updated,
 - Engineering Materials and Metallurgy
 - Manufacturing Technology
 - Fluid Mechanics and Machinery
 - Hydraulics and Pneumatics
 - Mechanics of Machines
 - Strength of Materials
 - Finite Element Analysis
 - Design of Transmission Systems
 - Thermal Engineering
- The following laboratory courses are merged
 - Computer aided machine Drawing & Computer Aided Manufacturing Laboratory
 - Strength of Materials and Fluid machinery laboratory
 - Metrology and Dynamics Laboratory
- The following New Laboratory courses introduced like Mechatronics and IoT laboratory, Simulation laboratory were introduced.
- Included internship in 4th sem, 5th sem and 7th semester in Mechanical Engineering and Mechatronics Engineering.
- Latest version of text books and reference books are updated.
- Members insisted to offer Finite Element Analysis in VI Semester instead of V Semester.
- The Humanities and Social Sciences courses (HS), Basic Science (BS) were discussed and finalized.
- The Anna University Nominee Suggested that the entire mandatory course included in the curriculum is with reference of UGC guide lines and AICTE Curriculum for Mechanical Engineering and Mechatronics Engineering.
- General Engineering Science (GES) baskets and Curriculum for the first year of Mechanical Engineering and Mechatronics Engineering were discussed and finalized.
- Curriculum is suggested by Curriculum Development Committee (CDC) and the same is reviewed and recommended.
- Discussed about the Curriculum considering the guidelines of UGC, AICTE, Premier Institutions, Foreign Universities, PEOs, POs and PSOs of the program and the views of the stakeholders.
- The attainment level of Course Outcomes (COs), Program Outcomes (POs), and Program Specific Outcomes (PSOs) were discussed.
- Discussion about the Value Added Courses, Employability Courses, Entrepreneurship and Skill Development Courses which were suggested by the stakeholders is made.

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- In the program of Mechatronics Engineering the following subjects has been introduced in the basket also in curriculum,
 - Electronics Manufacturing Technology
 - Medical Mechatronics
- The Contents of the following courses are updated,
 - Transforms and Boundary Value Problems
 - Design of Machine Elements
 - Manufacturing Technology
 - Applied Hydraulics and Pneumatics
 - Robotics Machine Vision System
 - Micro Controllers and PLC
 - Advanced Robots
- List of External examiners for Courses End Semester question paper setting, lab external, question paper Scrutiny, Project Viva Voce etc., are invited members from NIT, IIT, Private Universities, Anna University Professors and Autonomous Colleges.
- Department/Discipline is eligible to opt for Honors Programme offered by the same Department/Discipline if the department offers PG programme.
- Students who are desirous of pursuing their special interest areas other than the chosen discipline of Engineering may opt for additional courses in Minor specialization groups offered by a department other than their parent department.
- Total number of seats offered for a Honors / Minor programme shall be a maximum of 35% of sanctioned intake of major degree programme
- If more than 35% students enrolled for Honors / Minor programme, then the concerned major department shall conduct a test/interview in the prerequisite courses to select the students.
- A student shall be eligible for the award of B.Tech degree with Honors / Minor, if he/she earns 20 credits, in addition to the 160 credits.
- A student shall be permitted to register either for Honors or for Minor; and not for both at the same time.
- A student shall be permitted to choose only those courses that he/she has not studied in any form during the Programme.
- Keeping in mind the need of manpower in emerging areas, AICTE with the help of industry-academia experts, has framed the curriculum for seven Minor Degrees:
 - Artificial Intelligence and Machine Learning
 - Blockchain
 - Cyber Security
 - Data Science
 - Internet of Things (IoT)
 - Robotics
 - Virtual and Augmented Reality

- Courses have been designed after rigorous brainstorming and considering the inputs from the experts of corresponding domain.
- Finally the Chairman thanked all the members for their presence and also for their valuable suggestions towards the improvement of the Curriculum and Syllabus of the Mechanical Engineering and Mechatronics Engineering Programs.