

ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

PERUNDURAI, ERODE - 638 057



Department of Mechanical Engineering
3rd BOARD OF STUDIES MEETING

6th November 2020 @ 02.30 pm

GOOGLE ONLINE MEET

Link: <https://meet.google.com/uyv-qmhk-kue>



ERODE SENGUNTHAR ENGINEERING COLLEGE, PERUNDURAI - 638057

(An Autonomous Institution - Affiliated to Anna University, Chennai)



DEPARTMENT OF MECHANICAL ENGINEERING

03rd Board of Studies Meeting of the Mechanical Engineering

Mode: Through Online

Meeting Link: <https://meet.google.com/uyv-qmhk-kue>

Venue: Metrology lab,

Date & Time: 06.11.2020 & 02.30 p.m.

AGENDA

The 03rd Board of Studies Meeting is convened to get the approval for the Regulation 2019 - Curriculum and Syllabus for the Semesters V to VIII with effect from the Academic Year 2021-2022 onwards.

BoS / MECH 3.1	:	Welcome address and Opening Remarks by Chairman, Board of Studies in the Department of Mechanical Engineering
BoS / MECH 3.2	:	Confirmation of the 2 nd Board of Studies Meeting Minutes of the Department of Mechanical Engineering and Action taken report of 2 nd Board of Studies meeting.
BoS / MECH 3.3	:	To consider and approve the inclusion of Air standard Cycles in the I unit in the syllabus of Thermal Engineering subject offered under R2019 curriculum
BoS / MECH 3.4	:	To consider and approve the syllabus of V-VIII semesters to be offered from the academic year 2021-22 onwards.
BoS / MECH 3.5	:	To consider and approve the amendment in the curriculum to introduce an open elective "Internet of things".
BoS / MECH 3.6	:	To consider and approve the additional and exempted courses for the readmitted candidate (R017 to R 2019).
BoS / MECH 3.7	:	To consider and approve the NPTEL courses as equivalent courses offered in R 2019 from 5 th semester to 8 th semester.

BoS / MECH 3.8	:	To consider the proposal to change the laboratory title as MACBRO powered Machine drawing laboratory, instead of Machine drawing laboratory as mentioned in the curriculum and syllabi of IV semester B.E. Mechanical Engineering and approve.
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DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF THE MEETING

The 03rd Board of Studies meeting of Department of Mechanical Engineering, Erode Sengunthar Engineering College (Autonomous), Perundurai, Erode, Tamilnadu was held on 06th November 2020 at 02.30 p.m. through online.

1. The following members were present:

1.	Dr. M. Pandian , Professor & Head / MECH, ESEC	Chairman
2.	Dr. S. P. Sivapirakasam , Professor, Department of Mechanical Engineering, National Institute of Technology Trichirappalli. 620015	University Nominee
3.	Dr. N. Alagumurthi , Professor / Mechanical Engineering, Pondicherry Engineering College, Pondicherry.	Academic Experts
4.	Dr. R. B. Anand , Professor Department of Mechanical Engineering, National Institute of Technology, Trichirappalli 620015.	
5.	Dr. M. Chandrasekar , Associate Professor Department of Mechanical Engineering, Anna University Regional Centre (BIT Campus), Trichirappalli - 620 024.	
6.	Dr. N. Kulasekharan , Metier Technical Leader – CFD, Valeo India Private Limited, Chennai.	Industrial Expert related to Placement
7.	Prof. R. Srinivasa Moorthy , Associate Prof. / MECH	Internal Members
8.	Dr. S. Navaneethakrishnan , Assistant Prof. / MECH	
9.	Dr. J. Manivannan , Assistant Prof. / MECH	

BoS / MECH 3.1	:	Welcome address and opening remarks by Chairman, Board of Studies, Department of Mechanical Engineering.
		The Chairman, BOS of the Mechanical Engineering welcomed and introduced the members of Board of Studies and thanked each of them for consenting to attend the meeting amidst their busy schedule.
BoS / MECH 3.2	:	Confirmation of the 2 nd Board of Studies Meeting Minutes of the Department of Mechanical Engineering and Action taken report of 2 nd Board of Studies meeting:
		The Chairman, BOS of the Mechanical Engineering briefed about the changes made in the Regulation 2019 (Semester II to IV) syllabus and action taken report of the 2 nd Board of Studies Meeting. The members again underlined the importance of renaming the placement related course titles suitable to the contents of the syllabus.
BoS / MECH 3.3	:	To consider and approve the inclusion of Air standard Cycles in the I unit in the syllabus of Thermal Engineering subject offered under R 2019 curriculum:
		The Chairman, BOS of the Mechanical Engineering presented the syllabus of Thermal Engineering subject and urged the members to consider the request to include 'Air Standard Cycles' in Unit I. The board of studies resolved to approve the inclusion of 'Air standard cycles' in Unit I and suggested to change the title of Unit as 'Air standard and Power plant cycles'.
BoS / MECH 3.4	:	To consider and approve the syllabus of V - VIII semesters to be offered from the academic year 2021-22 onwards:
		The Chairman, BOS of the Mechanical Engineering presented the Curriculum and syllabus of the Regulation 2019 for Semesters V to VIII in the Board of Studies meeting. The BoS members suggested the following:

	<ul style="list-style-type: none"> ❖ Dr. M. Chandrasekar suggested rearranging the content in the Unit I of ‘Heat and Mass transfer’ subject as it is confusing. ❖ Dr. R.B. Anand suggested that Research Methodology can be offered as an elective subject instead of core subject. The Chairman, Board of studies clarified the necessity of offering the above subject as core, as well as informed that this subject is being offered as core subject in all the disciplines. The members felt that the content of the syllabus need not be same for all disciplines as the methods of research will differ from discipline to discipline. ❖ Dr. M. Chandrasekhar and Dr S.P. Sivapirakasam suggested that “Entrepreneurship Development” course shall be offered as a core subject by replacing Research Methodology in the VII semester curriculum. The Chairman, Board of Studies replied that Entrepreneurship Development course shall be introduced as Elective subject and can be included in the Electives list. ❖ Dr. N. Alagumurthi and Dr. R.B. Anand enquired the methods by which the subjects are grouped as Professional Electives. The Chairman replied that subjects are grouped in such a way that the students should have sound basic knowledge in all the streams of Mechanical Engineering and should not omit any fundamental subjects. ❖ Dr. R.B. Anand suggested reducing the credit for the subject Research Methodology as it is given in the curriculum as 4. The Chairman, Board of Studies replied that it shall be reduced to 3. ❖ All the members sought the clarifications for putting 3 project works in the curriculum like Mini-project, Project work – Phase I and Project work – Phase II. The Chairman, Board of Studies replied that Mini-project is concerned about the design and fabrication of simple machine components to impart practical knowledge to the students, whereas in Project Work (Phase I) the students are expected to identify the problem domain based on the technical literature and subsequent scheduling and conducting the experimental investigations which will be culminating in Project Work (Phase II) with detailed analysis of the results obtained. The project outcome shall be published in a reputed journal. ❖ The Board of Studies of Department of Mechanical Engineering resolved to approve the syllabus of V –VIII semesters of B.E. Mechanical Engineering with few changes as mentioned above.
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BoS / MECH 3.5	:	To consider and approve the amendment in the curriculum to introduce an Open elective “Internet of Things” in the fourth semester:
		<p>The Chairman, BOS of the Mechanical Engineering sought the opinion of the Board members to consider and approve the amendment to introduce an Open elective “Internet of Things”.</p> <ul style="list-style-type: none"> ❖ The members sought the syllabus of the course on “Internet of Things”. ❖ The Chairman replied that the course was designed and developed by the Infosys who will conduct the course and assess the students’ performance and the merit certificate shall be provided by the Infosys.. ❖ The Chairman, Board of studies also informed that the assessment pattern for this course would be similar to that of the Zero credit mandatory courses. ❖ The Board of Studies of Department of Mechanical Engineering resolved to approve the amendment in the curriculum to introduce an Open elective “Internet of Things” in the fourth semester.
BoS / MECH 3.6	:	To consider and approve the additional and exempted courses for the readmitted candidate (R017 to R 2019):
		<p>The Chairman informed that a candidate named Samuel Rajkumar was admitted in the academic year 2018-19 under Regulation 2017 of Anna University, Chennai, completed his first year course and discontinued in the third semester due to ill-health in the academic year 2019-20. He was readmitted in third semester during 2020 -21 academic year.</p> <p>Since his regulations of study was changed, the board of studies, after careful examination, recommended that the student has to study the subject “Electrical Drives and Controls” offered under R 2017 curriculum in the forthcoming Fourth semester, in addition to the regular subjects in the Fourth semester and to proceed with the subjects offered in the subsequent semesters as per R 2019 curriculum.</p>
BoS / MECH 3.7	:	To consider and approve the NPTEL courses as equivalent courses offered in R 2019 from 3 rd semester to 8 th semester:
		The Board of studies of Mechanical Engineering has identified and approved the equivalent courses offered by the NPTEL, for the regular courses offered under R 2019 curriculum. The list of courses and their equivalent are listed in the Annexure 1.

BoS / ME 3.8	:	To consider and approve the proposal to change the laboratory title as MACBRO powered Machine drawing laboratory, instead of Machine drawing laboratory as mentioned in the curriculum and syllabi of IV semester B.E. Mechanical Engineering:
		The Board of studies resolved that such changes cannot be accepted and that will bring mere advertisement to that company at free of cost. Instead, they suggested changing the name of the laboratory as ‘MACBRO powered Laboratory’ to strengthen the laboratory infrastructure by utilizing the resources of the industry.

CHAIRMAN
BOARD OF STUDIES –
MECHANICAL
ENGINEERING

Annexure I

Course title as per Curriculum R 2019	Credits allotted	Equivalent online NPTEL courses	Course duration	Remarks
Engineering Graphics	2	Engineering Drawing and Computer Graphics	12 weeks	
Robotics	3	Robotics	8	
Gas Dynamics & Jet Propulsion	3	Fundamentals of Compressible flow	8	
Metrology and Measurements	3	Mechanical measurement systems	8	
Refrigeration & Air-conditioning	3	Refrigeration & Air-conditioning	12	
Fluid Mechanics and Machinery	3	Fluid dynamics and Turbomachines	12	
Power plant engineering	3	Steam power engineering	12	
Manufacturing Technology I & II	3	Manufacturing systems technology I & II	12	
Engineering Thermodynamics	3	Concepts of Thermodynamics	12	
Heat and Mass transfer	4	Fundamentals of Conduction and Radiation	12	
Metrology and Measurements	3	Engineering Metrology	12	