

ERODE SENGUNTHAR

ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai, Accredited by National Board of Accreditation (NBA), New Delhi & National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade PERUNDURAI -638 057, TAMILNADU, INDIA.



Department of Mechanical Engineering 8th BOARD OF STUDIES MEETING

20th DECEMBER 2023 @ 02.30 PM

Zoom meeting link

https://us06web.zoom.us/j/87699794396?pwd=NPqDJscUuVGxoSdqk5Nu7dhbDbhWQs.1

Meeting ID: 876 9979 4396

Passcode:950504



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PERUNDURAI -638 057, TAMILNADU, INDIA.



8th Board of Studies Meeting-Mechanical Engineering

Venue: Mechanical Engineering - Smart Class Room

Date & Time: December 20th, 2023 & 02.30 PM

AGENDA

8th Board of Studies Meeting is convened to review the curriculum of R2023 BE Mechanical Engineering (Both English and Tamil medium) and the approval for the Curriculum (II to VIII Semesters), under regulations 2023 and syllabi for the Semesters (II to IV) of BE Mechanical Engineering (English & Tamil Medium), and Syllabi for the Semesters (II to IV) of ME Industrial Safety Engineering and ME Manufacturing Engineering.

	• Engineering.
BoS /MECH 8.1	: WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN BOARD OF STUDIES, DEPARTMENT OF MECHANICAL
BoS /MECH 8.2	TO CONSIDER AND APPROVE THE CHANGES MADE IN CURRICULUM OF AND ENGLISH) PROGRAMME TO BE OFFERED UNDER R-2023.
BoS /MECH 8.3	TO CONSIDER AND APPROVE THE SYLLABI OF II TO IV SEMESTERS FOR THE B.E. MECHANICAL ENGINEERING- TAMIL AND ENGLISH PROGRAMME TO BE OFFERED UNDER R-2023
BoS /MECH 8.4	TO CONSIDER AND APPROVE THE CURRICULUM OF I TO IV SEMESTER FOR THE M.E. (MANUFACTURING ENGINEERING) PROGRAMME TO BE OFFERED UNDER R2023
BoS /MECH 8.5	TO CONSIDER AND APPROVE THE SYLLABI OF III TO IV SEMESTERS FOR THE M.E. (MANUFACTURING ENGINEERING) PROGRAMME
BoS /MECH 8.6	TO CONSIDER AND APPROVE THE CURRICULUM OF I TO IV SEMESTER FOR THE M.E. (INDUSTRIAL SAFETY ENGINEERING) PROGRAMME TO BE OFFERED UNDER R2023.
BoS /MECH 8.7	TO CONSIDER AND APPROVE THE SYLLABI OF I TO IV SEMESTERS FOR THE M.E. (INDUSTRIAL SAFETY ENGINEERING) PROGRAMME

Dept. of Mech Engg.

MINUTES OF THE MEETING

The 8th Board of Studies meeting of Department of Mechanical Engineering, Erode Sengunthar Engineering College (Autonomous), Perundurai, Erode, Tamil Nadu was held on 20th December 2023 at 02.30PM. through online.

The following members were present:

S.No	Name of the Members with affiliation	Category
1.	Dr. M. Pandian, Professor and Head, Department of Mechanical Engineering, Erode Sengunthar Engineering College, Perundurai-638057.	Chairman
2.	Dr. K. Kumaravel, Associate Professor, Department of Mechanical Engineering, Government College of Technology, Thadagam Road, Coimbatore. 641004 Mobile: 9486457183 Mail ID: mailto:alagumurthi@ptuniv.edu.in	University Nominee
3.	Dr. N. Alagumurthi, Professor and Head, Department of Mechanical Engineering, Puducherry Technological University Pillaichavady, Puducherry-605 014 Phone: 9486143090 Email: alagumurthi@ptuniv.edu.in	Academic
4.	Dr. S. Senthilraja Professor, Department of Mechatronics Engineering, SRM Institute of Science and Technology, Kattankulathur - 603203 Mobile: 8015058258 Mail id: senthils@srmist.edu.in	Experts
5	Mr. Senthil Kumar N S Expert I/Senior Manager I-Operations Capgemini Engineering Coimbatore, Tamil Nadu, India Email:senthilfeb20@gmail.com Mobile: 9900114197	Industrial Expert related to Placement
6.	Mr. Pradheep John R, Senior Technical Consultant, Alchemy Solutions Private Ltd, Bangalore, India. Email: pradheep.john@gmail.com Mobile: 9894399351.	Alumnus nominated by the Principal

Chairman - Bos Dept. of Mech Engg. - ESEC

7.	Dr. N. Saravanan, Professor / MECH	
8.	Dr. J. Balaji, Associate Prof. / MECH	
9.	Dr. S. Suresh, Associate Prof. / MECH	
10.	Dr. S. Navaneethakrishnan, Associate Prof. / MECH	
11.	Prof. V.P. Krishnamurthy, Assistant Professor / Mech	
12.	Prof. P. Chokkalingam, Assistant Professor / Mech	Internal Members
13.	Prof. N.S. Mohan, Assistant Professor / Mech	
14.	Prof. G. Dhayanithi, Assistant Professor / Mech	
15.	Prof. S. Karthikeyan, Assistant Professor / Mech	
16.	Prof. A. Prabhakaran, Assistant Professor / Mech	
		2.

Chairman - BoS
Dept. of Mech Engg - ESEC

	: WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES, DEPARTMENT OF MECHANICAL ENGINEERING.
BoS /MECH 8.1	The Chairman of the Board of Studies welcomed all the members to the meeting and the Board reviewed the minutes and action taken report on 7th BOS and stands completed.
	The members present in the Board of Studies Meeting is given in Annexure I.
	TO CONSIDER AND APPROVE THE CHANGES MADE IN CURRICULUM OF II TO VIII SEMESTERS FOR THE B.E. (MECHANICAL ENGINEERING- TAMIL AND ENGLISH) PROGRAMME TO BE OFFERED UNDER R-2023.
	The Chairman, BOS of the Mechanical Engineering presented the changes made in curriculum of II to VIII semesters for the B.E (Mechanical Engineering- Tamil medium and English medium) programme.
	It is informed that the course Engineering Mechanics has been moved to Third semester from Second semester and instead the course Manufacturing Processes has been moved from third semester to second semester, based on Students feedback on curriculum. Also the course Strength of Materials has been shifted to fourth semester from third semester and the course Mechanical and Physical Metallurgy was moved from fourth semester to third semester considering the learning load of the students.
	Dr. K. Kumaravel, University nominee, suggested to include a course "Electrical Vehicle' either as professional core or professional elective as IC Engine powered vehicles will get outdated shortly. The Chairman replied that one unit in 'Thermal Engineering' will have "Electric Vehicles" as it is difficult to add one more course in the curriculum.
BoS /MECH 8.2	Dr. N. Alagumurthi from PTU Pondicherry suggested to consider carefully the movement of course Manufacturing Processes from third semester to second semester as the lateral entry students would miss the chance of studying this course. Chairman replied that the lateral entry students might have studied the course content during their diploma programme.
	Dr. K. Kumaravel from GCT Coimbatore, University nominee pointed out that as students from any specialization can study any course during their graduation. Hence he also suggested to carefully think before offering the course. Then the Chairman replied that in such situation, the lateral entry students have to study this course as additional requirement to get qualified for the award of degree of under graduation.
	Dr N Alagumurthi from PTU enquires the procedure for the assessment of embedded courses. Chairman replied that Out of 200 marks for internal assessment, 100 marks allocated for continuous assessment tests for theory portions and remaining 100 marks are allocated for the continuous assessment of laboratory experiments/exercises then the total

Then the members keenly watched the curriculum content and resolved to approve the

curriculum of BE Mechanical Engineering (English and Tamil medium).

marks out of 200 shall be arrived.

Chairman - BoS
Dept. of Mech Engg - ESEC

		TO CONSIDER AND APPROVE THE SYLLABI OF II TO IV SEMESTERS FOR THE B.E. MECHANICAL ENGINEERING (TAMIL AND ENGLISH MEDIUM) PROGRAMME.
	:	The Chairman, BOS of the Mechanical Engineering presented syllabus of BE
		Mechanical Engineering Programme. Chairman listed out the changes made in the syllabus
		of each and every course.
		Dr. S. Senthilraja of SRM University enquires the changes made in the syllabus
		of Engineering Thermodynamics. Chairman replied that the portion psychrometry has been
		moved to Fifth Unit of Thermal Engineering Course offered in Fourth semester. and also
		topic "Ideal and Real Gases" has been moved from Unit IV to Unit I of Engineering
		Thermodynamics as these are relevant to solve the problems of first law applicable to
		Closed and Open systems.
		Mr. N. S. Senthilkumar from CAPGEMINI enquires the syllabus of Computer
BoS / MECH 8.3		Aided Drafting (3D) laboratory emphasized the need of manual drafting and urged that few
os / Wilself o.c		diagrams of the components have to be drawn manually.
		Dr K. Kumaravel, University nominee underlined the importance of free hand
		sketching and few elemental diagrams have to be practiced through free hand sketching.
-		Chairman answered that their suggestions can be suitably incorporated in the syllabus.
		After having gone through the syllabus of Thermal Engineering, the Board
		members felt that the syllabus content was heavy and if possible, kindly shift or remove
		few portions from the syllabus. Chairman accepted their suggestions and assured that the modified syllabus shall be placed to the knowledge of Board members before finalizing.
		-
		Mr Pradeep John from Industry, representing Alumnus, suggested to combine
		the Strength of Materials lab course and Dynamics lab course together to make it as single course, in case if the credits issue arises. Chairman welcomed the suggestion and accepted.
		After detailed and thorough deliberations, the board is resolved to approve the
		syllabi of B.E. (Mechanical Engineering) English and Tamil medium.
	:	TO CONSIDER AND APPROVE THE CURRICULUM OF ALL SEMESTERS FOR
		THE M.E. (MANUFACTURING ENGINEERING) PROGRAMME TO BE
BoS / MECH 8.4	-	OFFERED UNDER R2023
	:	The board members have gone through the curriculum, presented by the Chairman and
BoS / MECH 8.5	:	resolved to approve without any changes. TO CONSIDER AND APPROVE THE SYLLABI OF III TO IV SEMESTERS FOR
		THE M.E. (MANUFACTURING ENGINEERING) PROGRAMME
		After having thorough deliberations, The board resolved to approve the syllabi of III and
		IV semesters of ME Manufacturing Engineering Programme.
BoS / MECH 8.6	:	TO CONSIDER AND APPROVE THE CURRICULUM OF I TO IV SEMESTERS
		FOR THE M.E. (INDUSTRIAL SAFETY ENGINEERING) PROGRAMME
		Somm.

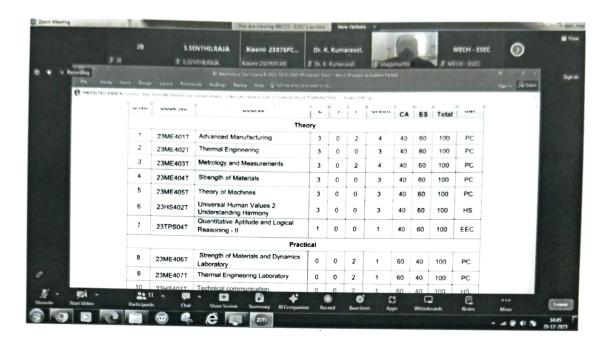
Chairman - BoS Dept. of Mech Engg. - ESEC

		Dr K. Kumaravel, University nominee , enquired about the admission status for this PG programme. Chairman replied that the sanctioned intake is 30 and all the seats were filled through Consortium. Then the members have gone through the curriculum in detail.
		Dr. S. Senthilraja from SRM University has enquired about whether "safety in mines"
		course is included in the curriculum. It is replied that the course is offered as Professional
		Elective. Then the Board resolved to approve the curriculum of the ME Industrial Safety
		Engineering.
BoS / MECH 8.7	:	TO CONSIDER AND APPROVE THE SYLLABI OF I TO IV SEMESTERS FOR THE M.E. (INDUSTRIAL SAFETY ENGINEERING) PROGRAMME
		After having thorough deliberations, The board resolved to approve the syllabi of III and
*:		IV semesters of ME Industrial Safety Engineering Programme.
BoS / MECH 8.8		ANY OTHER ITEMS
		Finally the Chairman expressed his sincere thanks to the members for having provided the
		valuable informations and suggestions to improve the quality of the syllabus as well as it is
		meeting the current requirements of all stakeholders.

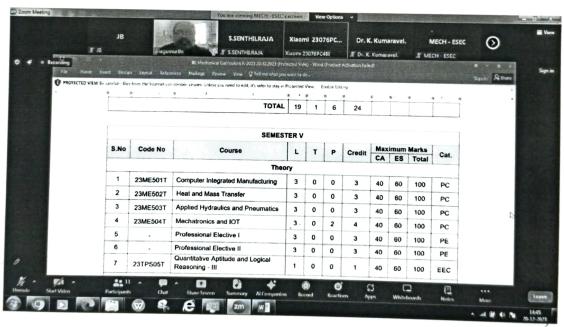
CHAIRMAN
Board of Studies - Mechanical Engineering

Chairman - BoS
Dept. of Mech Engg. ESEC

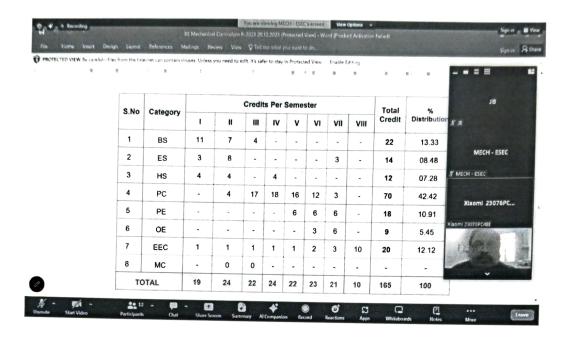
BOS MEETING SNAP

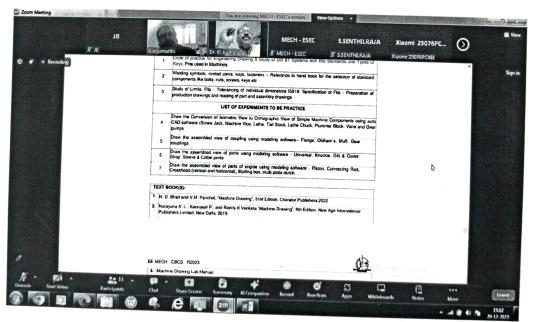


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ANNEXURE - I

The 7th Board of Studies meeting of Department of Mechanical Engineering, Erode Sengunthar Engineering College (Autonomous), Perundurai, Erode, Tamil Nadu was held on 25th May 2023 at 10.30AM. Through online.

The following members were present:

S.No	Name of the Members with affiliation	Category	Signature
1.	Dr. M. Pandian, Professor and Head, Department of Mechanical Engineering, Erode Sengunthar Engineering College, Perundurai-638057.	Chairman	Pening by
2.	Dr. K. Kumaravel, Associate Professor, Department of Mechanical Engineering, Government College of Technology, Thadagam Road, Coimbatore. 641004 Mobile: 9486457183 Mail ID: mailto:alagumurthi@ptuniv.edu.in	University Nominee	
3.	Dr. N. Alagumurthi, Professor and Head, Department of Mechanical Engineering, Puducherry Technological University Pillaichavady, Puducherry-605 014 Phone: 9486143090 Email: alagumurthi@ptuniv.edu.in		Present in ONLINE
4.	Dr. S. Senthilraja Professor, Department of Mechatronics Engineering, SRM Institute of Science and Technology, Kattankulathur - 603203 Mobile: 8015058258 Mail id: senthils9@srmist.edu.in	Academic Experts	
5	Mr. Senthil Kumar N S Expert I/Senior Manager I-Operations Capgemini Engineering Coimbatore, Tamil Nadu, India Email :senthilfeb20@gmail.com Mobile: 9900114197	Industrial Expert related to Placement	

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ERODE SENGUNTHAR ENGINEERING COLLEGE, PERUNDURAI, ERODE - 638057 Autonomous Institution Affiliated to Anna University, Chennai



DEPARTMENT OF MECHANICAL ENGINEERING

ACTION TAKEN REPORT FOR 8th BOS MEETING CONDUCTED ON 20.12.2023

Remarks	•	,	,	9 T
Action Taken	Accepted and changed in the curriculum.	Accepted and changed the syllabus of the concerned lab as suggested.	Accepted.	Accepted and informed that students will be trained in Solidworks and UniGraphics.
Suggestion Given	Merge the practicals of Manufacturing Technology with the theory course Manufacturing Processes and conduct as Embedded course.	Computer Aided Drafting laboratory - Few exercises have to be practiced manually.	Add latest editions of the textbooks in the syllabus.	Students need to be trained in latest design software packages during their practicals.
Name of the Expert	Dr. S. Senthil Raja	Dr. K. Kumaravel & Mr. N S Senthilkumar	Dr. K. Kumaravel	Mr. Pradheep John
Sl.No.	-:	2.	.3	4.

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S. IS	Name of the Expert	Suggestion Given	Action Taken	Kemarks
		Reduce the syllabus content of the	Few tonics in "Thermal Engineering" has	
5	Dr. K. Kumaravel & Mr. N S Senthilkumar	course "Thermal Engineering" as it is heavy.	been removed in second unit.	1.
		to the chiffed to	Ruled out the suggestion, as already	
`	Dr. S. Senthil Raja &	It possible, rsychronieny may be smired to Fnoineering Thermodynamics from Thermal	the syllabus of Engineering	•
9	Dr. N. Alagumurthi	Engineering.	Thermodynamics is heavy.	
			Accepted. Information related to	
		As some embedded courses are	assessment of Embedded courses is	
		introduced in this regulation, assessment	passed on to the staff members through	,
7.	Dr. Alagumurthi	procedure must be explicitly informed to	faculty meetings and to the students	
			through Class committee meetings and	
			also through regulations manual.	

CHAIRMAH - BPS

CHAIRMAH - BPS

MECHANICAL ENGG/ESEC.