

ERODE SENGUNTHAR ENGINEERING COLLEGE

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

PERUNDURAI, ERODE - 638 057



Department of Mechanical Engineering 7th BOARD OF STUDIES MEETING

25th May 2023 @ 10.30 A.M.

Zoom Online Meeting

Link:

[https://us06web.zoom.us/j/8244391888?pwd=V1pHUVkOjNONW9K
MnBSMHp5THNYUT09](https://us06web.zoom.us/j/8244391888?pwd=V1pHUVkOjNONW9KMnBSMHp5THNYUT09)

MEETING ID: 8244391888



Dr. V. VENKATACHALAM, M.Sc., M.Tech., Ph.D.
PRINCIPAL
Erode Sengunthar,
Engineering College,
Thudupathi, Erode 638 057



ERODE SENGUNTHAR ENGINEERING COLLEGE

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PERUNDURAI, ERODE - 638057



DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF 7th BOARD OF STUDIES MEETING

MODE: Through Online

Zoom link & Meeting ID

<https://us06web.zoom.us/j/8244391888?pwd=V1pHUVkOjNONW9KMnBSMHP5THNYUT09>

Venue: MECHANICAL CONFERENCE HALL

25th May 2023 @ 10.30 A.M.

AGENDA

The 7th Board of Studies Meeting is convened to review the curriculum of Regulations 2023 BE Mechanical Engineering (English and Tamil medium), curriculum of M.E., (Manufacturing Engineering) and M.E., (Industrial Safety Engineering) and the approval for the Regulation 2023 - Curriculum (I to VIII Semesters), Syllabi for the Semesters (First and Second) of BE Mechanical Engineering (English & Tamil Medium), Curriculum for M.E., Industrial Safety Engineering and M.E., Manufacturing Engineering and syllabi of first and second semester.

BoS /MECH / 7.1	:	Welcoming new Board of Studies members and opening remarks by the Chairman, Board of Studies, Department of Mechanical Engineering.
BoS /MECH / 7.2	:	To review and approve the Curriculum for BE Mechanical Engineering (Both English and Tamil Medium) under Regulation 2023 and approve the syllabus of first two semesters.
BoS/ MECH / 7.3	:	To review and approve the Curriculum and syllabi of M.E., Manufacturing Engineering and M.E., Industrial Safety Engineering under Regulation 2023 of all four semesters.



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BoS /MECH / 7.4	:	To consider and ratify the syllabus of Tamil heritage course being offered in second semester curriculum and syllabi of Tamils and Technology to be offered in Third semester curriculum of B.E., Mechanical Engineering (English and Tamil medium) under Regulations 2019 for 2022-23 admitted batch of students.
BoS /MECH / 7.5	:	To consider and approve the verticals for the award of B.E./B.Tech (Honours) specialization in the same discipline, B.E / B.Tech (Honours) and B.E./B.Tech minor in other specialization under Regulations 2019 for the students admitted during 2021-22 and thereafter.
BoS /MECH / 7.6	:	Any other items.

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DEPARTMENT OF MECHANICAL ENGINEERING

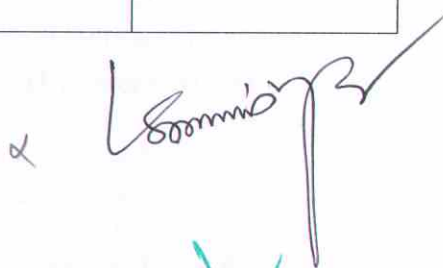
BOARD OF STUDIES MEMBERS LIST

S.No	Name of the Members with affiliation	Category
1.	Dr. M. Pandian, Professor and Head, 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: kumaravel.k.mech@gct.ac.in	University Nominee
3.	Dr. N. Alagumurthi, Professor and Former Head, Department of Mechanical Engineering, Puducherry Technological University Pillaichavady, Puducherry-605 014 Phone: 9486143090 Email: alagumurthi@ptuniv.edu.in	Academic Experts
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	
5.	Dr. D. Vincent Herald Wilson Professor, Dept. of Energy, School of Mechanical Engineering, VIT University, Vellore - 632 014. Contact: +91-9345555008, , +91-8124520617 E-Mail: dvhwilson@gmail.com , vincent.wilson@vit.ac.in	



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S.No	Name of the Members with affiliation	Category
6.	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
7.	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
7.	Dr. N. Saravanan, Professor / MECH	Internal Members
8.	Dr. J. Balaji, Associate Prof. / MECH	
9.	Dr. S. Navaneethakrishnan, Associate Prof. / MECH	
10.	Dr. J. Manivannan, Associate Prof. / MECH	
11.	Prof. V.P. Krishnamurthy, Assistant Professor / Mech	
12.	Prof. P. Chokkalingam, Assistant Professor / Mech	
13.	Prof. N.S. Mohan, Assistant Professor / Mech	
14.	Prof. G. Dhayanithi, Assistant Professor / Mech	
15.	Prof. S. Karthikeyan, Assistant Professor / Mech	



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DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF 7th BOARD OF STUDIES MEETING

BOS / MECH / 7.1	:	Welcoming Board of Studies members and Introduction of New Members by the Chairman, Board of Studies, Department of Mechanical Engineering.
		<p>The Chairman of the Board of Studies welcomed all the members to the meeting and introduced the new members among the gathering.</p> <p>The members present in the Board of Studies Meeting is given in Annexure I.</p>
BoS / MECH / 7.2	:	To review and approve the Curriculum for BE Mechanical Engineering (Both English and Tamil Medium) under Regulation 2023 and approve the syllabus of first two semesters.
		<p>The Chairman, BOS of the Mechanical Engineering presented curriculum of B.E. Mechanical Engineering (English and Tamil medium) (R2023) for review.</p> <p>Dr. S.-Senthil Raja of SRM University suggested to interchange the courses 'Industrial Robotics and Automation' as well as 'Robotics laboratory' from Fifth semester to Sixth semester and the courses 'Mechatronics and IOT' as well as 'Mechatronics laboratory' from Sixth semester to Fifth semester.</p> <p>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 'Automobile Technologies' will have "Electric Vehicles". as it is difficult to add one more course in the curriculum.</p>



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<p>BoS / MECH / 7.2 (Cont...)</p>	<p>: Dr. Vincet Herald Wilson from VIT University suggested to introduce Automotive Electronics as one of the Professional Elective. The Chairman replied that Under Professional Elective titled embedded system, this course will be included.</p> <p>After detailed deliberations, the Board of Studies resolved to approve the curriculum of B.E., Mechanical Engineering, proposed by the Chairman.</p> <p>Then the syllabuses of the courses pertaining to first two semesters of B.E. Mechanical Engineering were presented in the meeting. Professor Dr. K. Kumaravel suggested that the course ‘Computer aided Engineering Graphics’ may be taught and practiced both manually as well as drafted using software packages which would make the students to understand the concepts clearly. The other academic members too underlined the importance of manual drafting. Industrial Expert Mr. N S Senthilkumar from Capgemini also informed that present day students are not strong in fundamentals of Engineering Drawing. Then it is resolved that 50% of the exercises can be drawn manually and the balance exercises will be drawn using software packages.</p> <p>Dr. K. Kumaravel and other academic experts expressed that Workshop practices shall be conducted in such a way that modern carpentry tools, wood carving tools and power tools can be used to prepare the models. Dr. S. Senthil Raja of SRM University and Dr. N. Alagumurthi of Puducherry Technological University opined that students need to be trained in Gas Welding Practices in addition to Arc welding practices. All the expert members were satisfied with the syllabus content of the course ‘Engineering Mechanics’.</p> <p>Then the Board of Studies resolved to adopt the changes prescribed by the members suitably.</p>
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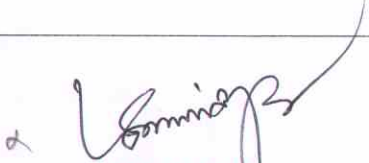
Dr. V. Venkatachalam, M.E., M.Tech., Ph.D.
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Thudupathi, Erode 638 057

BoS / MECH / 7.3	:	To review and approve the Curriculum and syllabi of M.E., Manufacturing Engineering and M.E., Industrial Safety Engineering under Regulation 2023 of all four semesters.
	:	<p>The Chairman, BOS of the Mechanical Engineering presented curriculum of M.E. Manufacturing Engineering and M.E. Industrial Safety Engineering of R2023 for review.</p> <p>Dr. K. Kumaravel, University Nominee enquired the syllabus content of Industrial Automation and Metal Forming laboratory.</p> <p>Dr. Vincent Herald Wilson suggested to go through the syllabus of Industrial Safety Engineering offered by other premier institutes like NIT and IITs. Also he insisted us to refer the syllabus of B.Tech (Safety and Fire Engineering) offered by Cochin University of Science and Technology.</p> <p>After detailed and thorough deliberations, the board is resolved to approve the curriculum and syllabi of M.E. (Manufacturing Engineering) and M.E. (Industrial Safety Engineering).</p>
BoS / MECH / 7.4	:	To consider and ratify the syllabus of Tamil heritage course being offered in second semester curriculum and syllabi of Tamils and Technology to be offered in Third semester curriculum of B.E., Mechanical Engineering (English and Tamil medium) under Regulations 2019 for 2022-23 admitted batch of students as directed by the Anna University, Chennai.
	:	The board resolved to approve the same.
BoS / MECH / 7.5		<p>To consider and approve the verticals for the award of B.E./B.Tech (Honours) specialization in the same discipline, B.E / B.Tech (Honours) and B.E./B.Tech minor in other specialization under Regulations 2019 for the students admitted during 2021-22 and thereafter.</p> <p>The members of the board of studies analyzed in-depth the requirements for the award of B.E./B.Tech (Honours) specialization in the same discipline, B.E / B.Tech (Honours) and B.E./B.Tech minor in other specialization. Finally, the board of studies approved the verticals introduced in regulation-2019, for the students admitted during the academic year 2021-22 and thereafter, as presented by the chairman.</p>



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BoS / MECH / 7.6	Any other items
	University nominee Dr. K. Kumaravel suggested to update the text and reference book with latest edition and include on-line resources. The chairman of Board of Studies agreed and assured to incorporate the changes suggested by the members wherever possible. The chairman of Board of Studies thanked all the members for their valuable suggestions.


CHAIRMAN
BOS – MECHANICAL




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DEPARTMENT OF MECHANICAL ENGINEERING

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, 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: kumaravek.k.mech@gct.ac.in	University Nominee	ONLINE
3.	Dr. N. Alagumurthi, Professor and Head, Department of Mechanical Engineering, Puducherry Technological University Pillaichavady, Puducherry-605 014 Phone: 9486143090	Academic Experts	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		ONLINE
5.	Dr. D. Vincent Herald Wilson Professor, Dept. of Energy, School of Mechanical Engineering, VIT University, Vellore - 632 014. Contact: +91-9345555008, , +91-8124520617 E-Mail: dvhwilson@gmail.com ,		ONLINE



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25/05/2023

S.No	Name of the Members with affiliation	Category	Signature
6.	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	ONLINE
7.	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	ONLINE
7.	Dr. N. Saravanan, Professor / MECH	Internal Members	N. Saravanan
8.	Dr. J. Balaji, Associate Prof. / MECH		Dr. J. Balaji
9.	Dr. S. Navaneethakrishnan, Associate Prof. / MECH		Dr. S. Navaneethakrishnan
10.	Dr. J. Manivannan, Associate Prof. / MECH		Dr. J. Manivannan
11.	Dr. R. Sasikumar, Associate Prof. / MECH		Dr. R. Sasikumar
12.	Prof. V.P. Krishnamurthy, Assistant Professor / Mech		Prof. V.P. Krishnamurthy
13.	Prof. P. Chokkalingam, Assistant Professor / Mech		Prof. P. Chokkalingam
14.	Prof. N.S. Mohan, Assistant Professor / Mech		Prof. N.S. Mohan
15.	Prof. G. Dhayanithi, Assistant Professor / Mech		Prof. G. Dhayanithi
16.	Prof. S. Karthikeyan, Assistant Professor / Mech	Prof. S. Karthikeyan	

V. Venkatachalam
25/05/2023



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ANNEXURE – II

DEPARTMENT OF MECHANICAL ENGINEERING

Screen shots of 7th Board of Studies Meeting

Name of the Department : Mechanical Engineering
Name of the Board : Mechanical Engineering
Date, Time & Mode : 25.05.2023 – 10.30 AM & ONLINE
Zoom Link : <https://us06web.zoom.us/j/8244391888?pwd=V1pHUVkOjNONW9KMnBMSMhp5THNYUT09>

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "You are viewing Dr.M.Pandian's screen". The slide content includes a table with columns for "S.No", "Case No", "Case", "A", "B", "C", "Case", "Maximum Marks", and "CR". Below the table, there is a section titled "DEPT. VISION, MISSION, GOALS & PROJECT DESIGN" and "VEHICULAR DESIGN : CURRICULAR, LABORATORY & PROJECT DESIGN".

On the right side of the Zoom window, there is a "Participants (13)" list:

- DM Dr.Pandian Mani (Me)
- C Chokalingam P.
- CJ Vincent Herold Wilson
- S S SENTHILRAJA
- Mani Venkatar
- Senthil Kumar N S
- DK Dr. K. Kumaravel
- D Dr.N.Saravanan
- A Alagumurthi
- V V.P.Krishnamurthy
- BJ Balaji Jayavel
- MN Mohan N.S
- D Dr.M.Pandian

At the bottom of the Zoom window, there are controls for "Unmute", "Share Video", "Participants", "Share Screen", "Chat", "Reactions", "More", and "Leave".

Figure 1. Board chairman presenting the New curriculum 2023 in the online meeting

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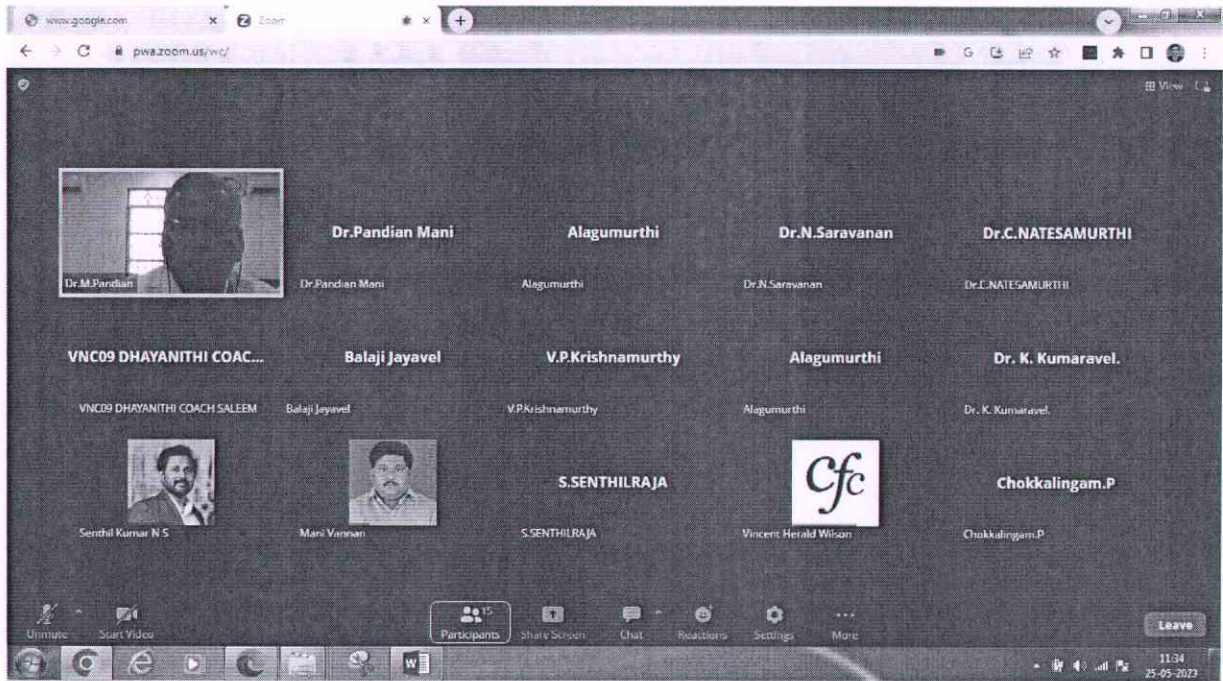


Fig 2. Figure shows were all the Board of study members were present in the online zoom meeting

PROFESSIONAL ELECTIVE - II

S.No	Code No	Course	L	T	P	Credit	Maximum Marks			Cat.
							CA	ES	Total	
Theory										
1	23MF05	Advanced Metrology and Non Destructive Testing	3	0	0	3	60	40	100	PE
2	23MF06	Productivity Management and Re-Engineering	3	0	0	3	60	40	100	PE
3	23MF07	Supply Chain Information Systems	3	0	0	3	60	40	100	PE
4	23MF08	Design of Cellular Manufacturing System	3	0	0	3	60	40	100	PE

PROFESSIONAL ELECTIVE - III

S.No	Code No	Course	L	T	P	Credit	Maximum Marks			Cat.
							CA	ES	Total	
Theory										
1	23MF09	Computer aided product design	3	0	0	3	60	40	100	PE
2	23MF10	Quality Control and Reliability Engineering	3	0	0	3	60	40	100	PE
3	23MF11	Computer Aided Process Planning	3	0	0	3	60	40	100	PE
4	23MF12	Flexible and Competitive Manufacturing System	3	0	0	3	60	40	100	PE

Fig 3. Members given the valuable suggestions in the meeting of New curriculum 2023



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ACTION TAKEN REPORT FOR 7th BOS MEETING CONDUCTED ON 25.05.2023

Sl.No.	Name of the Expert	Suggestion Given	Action Taken	Remarks
1.	Dr. S. Senthil Raja Professor, Department of Mechatronics Engineering, SRM Institute of Science and Technology, Kattankulathur - 603203	To interchange the courses 'Industrial Robotics and Automation' as well as 'Robotics laboratory' from Fifth semester to Sixth semester and the courses 'Mechatronics and IOT' as well as 'Mechatronics laboratory' from Sixth semester to Fifth semester.	Accepted and changed in the curriculum.	-
2.	Dr. K. Kumaravel, Associate Professor, Department of Mechanical Engineering, Government College of Technology, Thadagam Road, Coimbatore. 641004	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 'Automobile Technologies' will have "Electric Vehicles".	-
3.	Dr. Vincet Herald Wilson Professor, Dept. of Energy, School of Mechanical Engineering, VIT University, Vellore - 632 014.	To introduce Automotive Electronics as one of the Professional Elective.	Under Verticals titled "embedded systems in Mechanical engineering", this course is included.	-



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Sl.No.	Name of the Expert	Suggestion Given	Action Taken	Remarks
4	Dr. K. Kumaravel & Mr. N S Senthilkumar	The course 'Computer aided Engineering Graphics' may be taught and practiced both manually as well as drafted using software packages.	50% of the exercises can be drawn manually and the balance exercises will be drawn using software packages.	-
5	Dr. K. Kumaravel, Dr. S. Senthil Raja & Dr. N. Alagumurthi	Workshop practices shall be conducted in such a way that modern carpentry tools, wood carving tools and power tools can be used to prepare the models.	Modern tools have been included in the List of Equipments.	-
6	Dr. Vincet Herald Wilson	To go through the syllabus of Industrial Safety Engineering offered by other premier institutes like NIT and IITs. Also he insisted us to refer the syllabus of B.Tech (Safety and Fire Engineering) offered by Cochin University of Science and Technology.	As per the suggestions the syllabuses of premier institutes have been considered and curriculum has been prepared accordingly.	-



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