



# SRM Valliammai Engineering College (An Autonomous Institution)

Approved by AICTE & Affiliated to Anna University, Chennai.  
'A' Grade Accreditation by NAAC, NBA Accredited, ISO 9001:2015 Certified

## Board of Studies in Mechanical Engineering Department

Lr. No. SRM VEC/MECH/BOS-3/2023/01

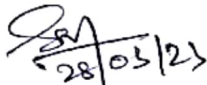
28.03.23  
SRM Nagar

Submitted to the Principal:

Sub: Requisition for conducting 3<sup>rd</sup> Board of studies meeting – Mechanical Engg.– Reg.

We have proposed to conduct the 3<sup>rd</sup> Board of studies meeting on 31.03.2023 [Friday] around 10.30 am, based on the communications received from the board members. Therefore, we would like to request your permission for conducting the same at the Department of Mechanical Engineering.

For kind approval, please.

  
28/03/23

HOD/Mechanical Engineering

  
29/3  
Principal

SRM Nagar, Kattankulathur-603 203, Chengalpattu District, Tamil Nadu, India.

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**SRM VALLIAMMAI ENGINEERING COLLEGE**  
**(Autonomous Institution)**  
**DEPARTMENT OF MECHANICAL ENGINEERING**



3<sup>rd</sup> Board of studies in Mechanical Engineering has been scheduled on 31.03.2023 at 10.30 AM in Mechatronics lab of Mechanical Engineering department.

**Agenda**

<u>ITEM</u>	<u>PARTICULAR</u>
<b>FM 3.01</b>	To consider and approve the curriculum syllabi of III and IV semester for the UG degree programme to be offered under new regulation R – 2023  1. B.E - Mechanical Engineering
<b>FM 3.02</b>	To consider and approve the curriculum syllabi of I to IV semester for the PG degree programme to be offered under new regulation R – 2023  1. M.E. – Industrial Safety Engineering
<b>FM 3.03</b>	To discuss and approve CO & PO mapping
<b>FM 3.04</b>	To Discuss and approve the subjects offered by the Department of Mechanical Engineering to other Departments.
<b>FM 3.05</b>	Any other points by the permission of chairperson

CC to,

1. Chairman, Academic Council – for kind information
2. All members of Board of studies in Mechanical Engineering

*S. Hingnanay*  
Chairman 29/3/23



## MINUTES OF THE 3<sup>rd</sup> BOS MEETING

VENUE: DEPARTMENT OF MECHANICAL ENGINEERING

DATE:31.03.2023

TIME:10.30 AM

The chairman of the Board of Studies in Mechanical Engineering welcomed the subject experts and initiated the presentation on hybrid mode (Offline and online) and the following are the points discussed.

FM 3.01	To consider and approve the curriculum syllabi of III and IV semesters for the UG degree program to be offered under new regulation R – 2023 1. B.E - Mechanical Engineering
FM 3.03	To discuss and approve CO & PO mapping
FM 3.04	To Discuss and approve the subjects offered by the Department of Mechanical Engineering to other Departments.
FM 3.05	Any other points by the permission of chairperson

### UG:

- PEOs MODIFIED IN THE DEPARTMENT STAFF MEETING IS APPROVED
- PO/PSO TO BE INCORPORATED INTO THE CURRICULUM
- PSO MAY BE RESTRICTED TO 2
- FOR MAPPING THE WEIGHTAGE OF CO/PO NUMBERS VIZ. 1,2,3 TO BE USED INSTEAD OF SYMBOLS (1-LOW, 2-MODERATE, 3-HIGH)
- 2 ONLINE COURSES MAY BE INTRODUCED IN THE VERTICALS
- WITH THE MINOR DEGREE, HONORS DEGREE MAY BE INTRODUCED WITH SPECIALIZATION OR WITHOUT SPECIALIZATION DEPENDING UPON THE SUBJECTS CHOSEN FROM THE VERTICALS
- FLUID MECHANICS AND MACHINERY MAY BE REWORKED AS FLUID MECHANICS WITH KINEMATICS AND STATICS
- IN THERMODYNAMICS UNITS 3 AND 5 MAY BE SWAPPED
- TRADITIONAL KNOWLEDGE SYSTEM MAY BE INTRODUCED
- BASICS OF THE INDIAN CONSTITUTION MAY BE CONSIDERED

- THEORY OF MACHINES MAY BE DIVIDED INTO 2 SUBJECTS AND CREDIT MAY BE INCREASED TO 172
- 3 CREDIT PRACTICAL EMBEDDED THEORY COURSES MAY BE INTRODUCED SINCE EXPERIENTIAL LEARNING IS PREFERABLE
- MTLAB-I & MTLAB-II, MAY BE EMBEDDED INTO MT-I AND MT-II THEORIES
- IN CADLAB FEA MAY BE COMBINED WITH ANSYS
- DESIGN THINKING, REVERSE ENGINEERING, ADDITIVE MANUFACTURING AND IOT BASED SUBJECTS MAY BE DIRECTLY INTRODUCED OR FROM NPTEL COURSES THEY MAY BE INTRODUCED
- EXPOSURE TO IPR MAY BE CONSIDERED
- ENGINEERING MECHANICS MAY BE SIMPLIFIED AND ELABORATED
- IN THE FINAL YEAR MATLAB, ADAMS, ROBOTIC SIMULATION AND OTHER SUCH FREE OPEN-SOURCE SOFTWARES MAY BE INTRODUCED
- AN EQUAL DISTRIBUTION OF SUBJECTS FROM MANUFACTURING, DESIGN AND THERMAL FIELDS MAY BE ENSURED IN ALL THE SEMESTERS
- VAC WITH 4 CREDITS MAY BE INCLUDED IN THE CURRICULUM
- DIRECTED STUDY SUBJECTS WITHOUT ANY TIMETABLE BUT WITH A STAFF ASSISTANCE MAY BE OFFERED TO THE WILLING STUDENTS FOR ELECTIVES EVEN FOR 1 STUDENT
- IN SEMESTER 5 AUTOMOBILE ENGINEERING TO BE RENAMED AS MOBILITY ENGINEERING AND THE FOLLOWING TOPICS TO BE INCLUDED EVs, CONNECTED AND AUTONOMOUS, AUTOMOTIVE ELECTRICAL
- IN SEMESTER 6 IN THE SUBJECT DESIGN OF TRANSMISSION SYSTEM V TO BE INCLUDED
- IN VERTICAL 6, SUBJECT ADDITIVE MANUFACTURING, ROBOTIC MANUFACTURING, AND INDUSTRY 4.0 TO BE ADDED
- IN VERTICAL 6, SUBJECT DESIGN FOR X, SUSTAINABILITY, SAFETY AND RELIABILITY TO BE INCLUDED
- IN VERTICAL 6, SUBJECT ERGONOMICS IN DESIGN, DESIGN THINKING TO BE ADDED
- IN VERTICAL 6, SUBJECT NEW PRODUCT DEVELOPMENT, STAGE-GATE PROCESS, INNOVATION FOR NPD



- IN VERTICAL 6, SUBJECT PRODUCT LIFE CYCLE MANAGEMENT, END OF LIFE, CIRCULARITY TO BE ADDED

FM 3.02	<p>To consider and approve the curriculum syllabi of I to IV semester for the PG degree programme to be offered under new regulation R – 2023</p> <p>1. M.E. – Industrial Safety Engineering</p>
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PG:

- FOR ME 5 PO AND 3PSO ARE ENOUGH
- IN THE PG CAD LAB SIMULATION AND FABRICATION OF SAFETY COMPONENTS USING SOFTWARES LIKE CREO MAY BE CONSIDERED
- INSTEAD OF TPM RELIABILITY ENGINEERING MAY BE INTRODUCED
- INSTEAD OF ISO QUALITY SYSTEMS CASE STUDY ON RELIABILITY MAY BE CONSIDERED
- INTRODUCTION OF CO/PO/PSO MATRICES FOR ALL PG SUBJECTS NEEDED
- INDUSTRIAL COLLABORATION MAY BE CONSIDERED
- SUBJECTS MAY BE MODIFIED INTO THEORY CUM PRACTICAL
- INSTEAD OF MATHS, ERGONOMICS OR SAFETY-ORIENTED MATHS MAY BE CONSIDERED
- SAFETY DEVICES MODELLING SIMULATION AND FABRICATION MAY BE CARRIED OUT FOR PROJECT WORKS
- IN THE II SEM MINI PROJECT IOT BASED WORKS MAY BE CONSIDERED
- NEW PRODUCT FAILURE PREVENTION, STRUCTURAL HEALTH MONITORING ETC MAY BE GIVEN DUE WEIGHTAGE
- INDUSTRIAL EXPERTS MAY BE CALLED UPON FOR COVERING 2 UNITS FOR PG

The chairman thanked everyone for providing valuable suggestions and meeting was concluded around 12.30 PM.

*S. Thirugnanam*  
31/03/23

Dr.S.THIRUGNANAM

(Chairman)



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## Board of Studies in Mechanical Engineering

Attendance of Meeting held on 31.03.2023

Sr.No.	Name	Designation and Affiliation	Category	Signature
1.	Dr. S.Thirugnanam	Professor and Head, Department of Mechanical Engineering, SRMVEC.	Chairman	
2.	Dr.S.Srinivasa Moorthy	Associate Professor, Department of Production Engineering, Government College of Technology, Thadagam Road, Coimbatore – 641 013	Member (University Nominee)	ATTENDED THROUGH ONLINE MODE
3.	Dr. K.Pitchandi	Professor, Department of Mechanical Engineering, Sri Venkateswara College of Engineering, Chennai - Bengaluru High Road, Sriperumbudur- 60 2117	Member (Subject Expert)	
4.	Dr. S.Suresh Kumar	Associate Professor, Department of Mechanical Engineering, SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam – 603 110	Member (Subject Expert)	
5.	Dr. Sankar Venugopal SHANKAR	Vice President, Mahindra and Mahindra (MWC), Chengelpet – 603 002	Member (Industry Expert)	
6.	Mr.K.Kannathasan	LS Automotive India Pvt Ltd, Poonamallee-Tiruvallur High Road, Gudapakkam Village, Poonamalle – 600 056	Member (Alumnus)	
7.	Dr. S. Suresh Pungaiiah	Assistant Professor, Department of Mechanical Engineering, SRMVEC.	Member (Subject Expert)	

SRMVEC