#### National Engineering College, K.R.Nagar, Kovilpatti – 628 503

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

## Department of Mechanical Engineering MINUTES OF THE MEETING

The  $23^{\rm rd}$  Board of Studies meeting of the Mechanical Engineering was held on  $6^{\rm th}$  June, 2025 at 10.30 a.m.in in the Conference Hall, Autonomous Block, National Engineering College, K.R.Nagar, Kovilpatti –  $628\,503$ 

#### 1. The following members were present

1.	D. O Tl.		
1.	Dr. S. Iyahraja,	CI.	
	Professor & Head,	Chairman	
	Department of Mechanical Engg., NEC		
2.	Dr. D Samuel Raj,	University	
	Associate Professor/Mechanical Engineering,	Nominee	
	CEG Campus, Anna University, Chennai – 600025.	Tioning	
3.	Dr. M. Venkata Ramanan,		
	Professor & Director, Institute for Energy Studies,		
	CEG, Anna University, Chennai – 600025		
4.	Dr. C. Prathap,		
	Professor / Aerospace Engg,		
	Indian Institute of Space Science & Tech.,		
	Thiruvananthapuram.	Academic Experts	
5.	Dr. N. Siva Shanmugam,	Academic Experts	
	Professor / Mechanical Engg.,		
	NIT Trichy.		
6.	Dr. K. Hariharan,		
	Associate Professor / Mechanical Engineering,		
	IIT Madras.		
7.	Mr. K. Monickavasagom Pillai,	Meritorious	
	Chief Scientist,	Alumnus	
	CSIR –National Aerospace Laboratories, Bangalore.	Nominated by the Principal	
8.	Mr. V. Hari Babu	Timorpui	
	Senior Vice President, Head of Engineering (Aero) &		
	DOA Delegations Responsible,		
	Axiscades Technologies Ltd., Bangalore.	Industrial Experts	
9.	Mr. S. Ravikumar		
	Chief Research & Innovation Testing and Validation,		
	Iniciotek Private Limited, Chennai.		

Deputy General Manager, Mechanical – Static Dept., Larsen & Toubro (L&T) Limited, Chennai  11. Mr. S. Balaji, Assistant General Manager, Hyundai Motor India Limited, Chennai.  12. Dr. D. P. Sudhakar Deputy Director ISRO - Indian Space Research Organization Mahendragiri, Triunelveli District.  13. Dr. D. Venkat Kumar, Professor / Mechanical Engineering  14. Dr. M. Kathiresan, Professor / Mechanical Engineering  15. Dr. R. Harichandran, Professor / Mechanical Engineering  16. Dr. I. Sankar, Associate Professor / Mechanical Engineering  17. Dr. D. Vignesh Kumar, Associate Professor / Mechanical Engineering  18. Dr. F. Michael Thomas Rex, Associate Professor / Mechanical Engineering  19. Dr. A. Andrews Assistant Professor (S.G) / Mechanical Engineering  20. Dr. K. Thoufiq Mohammed, Assistant Professor / Mechanical Engineering  21. Mr. C. Vecra Ajay, Assistant Professor / Mechanical Engineering  22. Mr. B. Prince Abraham, Assistant Professor / Mechanical Engineering  23. Ms. M. Rajeswari Assistant Professor / Mechanical Engineering  24. Mr. N. Muthu Saravanan Assistant Professor / Mechanical Engineering  25. Dr. T. Sakthi, Assistant Professor (S.G) / Humanities  26. Mr. M. Mohamed Faisal, III Year / Mechanical Engineering  27. Mr. K. Vishnu, III Year / Mechanical Engineering  28. Mr. M. Keerthi Kumar, III Year / Mechanical Engineering	10.	Mr. A T Paary,	
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Engineering	28.	Mr. M. Keerthi Kumar, III Year / Mechanical	
		Engineering	

2. The following members could not attend the meeting due to unavoidable reasons and they were granted leave of absence.

1.	Mr. K. Subramanian,	
	Team Lead, ELGI Equipments Limited, Coimbatore.	In decadaried December
2.	Mr. S. Manikandan,	Industrial Experts
	Senior Engineer, Rolls-Royce Power Systems, Pune	

BoS / MECH 23.1	•	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 $23^{rd}$ Board of Studies and acknowledged each one of them for sparing their valuable time to attend the meeting.
BoS / MECH 23.2	:	TO DISCUSS ANY SUGGESTIONS / MODIFICATIONS NEEDED IN THE VISION AND MISSION OF DEPARTMENT & PEOs AND PSOs OF B.E. MECHANICAL ENGINEERING
	:	Vision and Mission of the Mechanical Engineering Department, and PEOs and PSOs of B.E. Mechanical Engineering were presented by the Chairman. The Chairman that the modifications the PEOs and PSOs as per the suggestions given by the members in the 22 <sup>nd</sup> BoS meeting will done possibly after getting the feedback from other stakeholders also.
BoS / MECH 23.3	:	TO APPROVE THE ACTON TAKEN REPORT OF THE MINUTES OF TWENTY SECOND BOS MEETING HELD ON 07th DECEMBER, 2024.
	:	The minutes of the <b>Twenty Second Board of Studies meeting</b> held on $07^{th}$ December, $2024$ were communicated to the members.  The comments given by the members have been incorporated and placed for confirmation. The same was approved in the $22^{nd}$ Academic Council Meeting.  The action taken report of the <b>Twenty Second Board of Studies meeting</b> held on $07^{th}$ December, $2024$ has been presented and the same has been approved in the $23^{rd}$ Board of Studies meeting.  (Enclosed in Annexure – I)

BoS / MECH 23.4.1	:	TO CONFIRM AND APPROVE B.E. Mechanical Engineering
		Programme – Syllabus for VI Semester Core Courses under
		R2023
		(Enclosed in Annexure – II)
BoS / MECH 23.4.2	:	TO CONFIRM AND APPROVE B.E. Mechanical Engineering
		Programme— Syllabus for few Programme Elective Courses
		under R2023
		(Enclosed in Annexure – III)
BoS / MECH 23.4.3	:	TO CONFIRM AND APPROVE Syllabus for few Open Elective
		Courses under R2023
		(Enclosed in Annexure – IV)
BoS / MECH 23.4.4	:	TO CONFIRM AND APPROVE Syllabus for few One Credit
		Elective Courses under R2023
		(Enclosed in Annexure – V)
BoS / MECH 23.4.5	:	TO CONFIRM AND APPROVE Syllabus of course to be offered
		by the Department of Mechanical Engineering in the Vertical
		under Industrial Internet of Things of ECE Department.
		(Enclosed in Annexure – VI)
BoS / MECH 23.4.6	:	TO DISCUSS AND APPROVE Course Design Document of V
		Semester Subjects under R2023
		(Enclosed in Annexure – VII)
BoS / MECH 23.5	:	Suggestions Given by the Members
23.5.1		Design for Manufacture and Assembly
		• The book G. Boothroyd, P. Dewhurst & W. Knight, Product
		Design for Manufacture and Assembly, 3rd Edition, CRC
		Press, 2011 may be shifted from the Reference Book list to
		the Text Book list.
		Relevant content from the Coursera platform can be added
		under Reference Materials to enhance online learning
		support.
		CO1 content may be reduced to improve clarity.
		CO4 content may be revised and reorganized as follows:
		Machining processes: Turned parts – Drilled parts –
		Milled, planned, shaped, and slotted parts – Ground
		parts, followed by
		Bulk deformation processes: Metal extruded parts –
		Impact/Cold extruded parts – Stamped parts – Forged
		parts.
		• In CO5, the term "AT&T's" can be removed.

The environmental content in CO5 may be removed and reframed into a separate one-credit course titled "Design for Environments." The subject can be integrated with Project-Based Learning (PBL). 23.5.2 **Industrial Engineering** In CO4, the topic KANBAN may be placed after the Lean Manufacturing topic. The CO2 statement may be revised for better alignment with its syllabus content and to enhance consistency and clarity. 23.5.3 **Engineering Metrology and Measurements** In CO3 content, may be changed as following order: CMM followed by Laser Interferometers, and finally Machine Vision System. In CO4, the topic profilometer can be added. There is a mismatch between the CO4 statement and syllabus content: the CO4 statement includes form measurement, but in the content only roundness is mentioned, which is just one aspect of form measurements. The topic "screw threads measurement" can be moved from CO4 to CO2 and rephrased as "screw threads measurements using tool maker's microscope." In CO5, the topic "ultrasonic flow measurements" may be added Flow Measurement, "infrared under and thermometer" be added under mav Temperature Measurements. In the CO10 statement, the word "calibrate" may be removed and replaced with a more suitable term that aligns with the syllabus content. The topic "error percentage" may be included wherever applicable. Topics in CO1, such as limits, fits, and tolerance, may be moved to CO2 and placed before the topic "limit gauge." The sequence of topics from "Experimental Methods for Engineers" by Holman J. P., or "Engineering Metrology" by Gupta I. C. may be followed to frame the sequence of CO1 to CO<sub>5</sub>.

#### 23.5.4 : Machine Elements and System Design

- CO1 statement: The phrase "Design and analyze shaft" may be changed to "Design and analyze the shaft" for grammatical clarity.
- In CO1, the term "solid" in the topic "Design of solid shafts based on strength" can be removed. The topic may be rephrased as "Design shafts based on strength." The phrase "of" may be removed wherever applicable throughout the syllabus content (e.g., "Design of solid shafts based on strength" can be revised to "Design shafts based on strength").
- In CO6, the word "key" in the statement may be replaced with "primary" to better reflect importance or emphasis.
- In the CO2 statement, the phrase "based on the given application" can be made more concise or replaced with a more suitable alternative.
- In CO6 content, the topic "how to use design data book" may be added to enhance practical understanding.
- The topic "tightening torque calculation" can be included under a suitable CO wherever it fits best.
- In CO4, the content "Design of flat and V-belt drives Design of transmission chains and sprockets" may be rephrased as "Design flat and V-belt drives Transmission chains and sprockets," and the topic "types of belts" can also be added.
- The CO4 statement "Design and select a flexible drive system for a given application" can be revised to "Design and selection of transmission elements" for simplification and consistency.
- CO5 and CO8 statements may be simplified to make them short and clear.
- In the CO8 statement, the term "actual" may be replaced with "real-life component" for better contextual clarity.
- In the text or reference list, "A Textbook of Machine Design" by R. S. Khurmi and J. K. Gupta can be added.

	• The syllabus can include the relevant NPTEL course name along with the professor's name, followed by the course link for student reference.
23.5.5	<ul> <li>Computer Aided Analysis</li> <li>The Course title "Computer Aided Analysis" may be changed to "Finite Element Analysis".</li> <li>The reference book - T. R. Chandrupatla and A. D. Belegundu, "Introduction to Finite Elements in Engineering", Pearson, 2021 can be moved to the Textbook section.</li> <li>The textbook Rao, S.S., The Finite Element Method in Engineering, 6th Ed., Elsevier Butterworth-Heinemann, 2017 may be moved to the Reference Books section.</li> <li>Practical Finite Element Analysis by Nitin S. Gokhale, 2020 can be added to the Reference Books section to provide additional practical insights.</li> <li>The reference book Tadeusz Stolarski, Y. Nakasone, S. Yoshimoto, "Engineering Analysis with ANSYS Software", Butterworth-Heinemann (Elsevier), 2018 may be removed from the syllabus if deemed less relevant.</li> </ul>
23.5.6	<ul> <li>Product Development Practice</li> <li>The word "practice" in the title may be removed, or the title can be changed to either "Product Design and Development" or "Hands-on Experience on Product Development" for better clarity and relevance.</li> <li>The CO1 statement "Identify and analyze real-world problems using empathy techniques and reverse engineering approaches" may be simplified to "Identify and analyze real-world problems" to keep it more focused and concise.</li> <li>The CO2 statement "Apply forward engineering to develop innovative solutions, focusing on technical feasibility, patentability, and market potential" can be revised to "Apply forward engineering to develop innovative solutions" to streamline the learning outcome.</li> </ul>
23.5.7	<ul> <li>Solar Photovoltaic Energy Conversion</li> <li>CO1, CO2, and CO3 content can be simplified and reduced.</li> <li>CO1, CO2, CO3, and CO5 statements can be shortened.</li> </ul>

	• In CO5 syllabus content, change the phrase "Performance
22.7.0	prediction" to "Performance prediction and optimization".
23.5.8	: Cogeneration and Waste Heat Recovery
	• CO4 statement and content are mismatched; the CO4
	statement may be updated to align with the content.
	• In CO1, the topic "heat to power ratio" may be added.
	• In CO1 syllabus content, the word "combined" may be
	removed from the second line.
	The topic Integrated Gasification Combined Cycle (IGCC) in
	CO1 can be added.
	Handbook on Bureau of Energy Efficiency, Volume 2 and
	Volume 4 can be added to the Reference Books section.
23.5.9	: Energy Efficient Buildings
20.0.0	• In CO4, the phrase "building loads" may be changed to
	"thermal loads" for more accurate technical terminology.
	• CO1 and CO2 can be assigned to cover civil engineering
	content, while CO3, CO4, and CO5 may be designated for
	mechanical engineering topics to ensure a balanced
	interdisciplinary approach.
	• CO5 can include some practical content to enhance
	application-based understanding and strengthen
	experiential learning.
23.5.10	
25.5.10	Mechanics of Robots
	• The topic "Industry 5.0" may be added under CO1
	• The word "definition" in CO1 can be removed to make the
	content more action-oriented and streamlined.
	The reference book Industrial Robotics by Mikell P. Groover
	may be added to the Reference Books section.
23.5.11	: Piping Engineering
	• In CO7 syllabus content, the phrase "using software" may be
	removed if not applicable.
	CO7 statement can be revised to: "Thickness calculation and
	validation using codes and standards."
	CO1 statement may be revised.
23.5.12	: Additive Manufacturing
	• In CO1 syllabus content, the topic "BTF Ratio (Buy to Fly
	ratio)" may be added.
	• In CO2, the topic "Organ bio-printing (Bio Ink)" can be added
	before "Case Study".
	• In CO2, "Topology Optimization" may be changed to
	"Topology Optimization – Generative Design".
	Topology Opullization deficiative Design.

	• In CO4 syllabus content, "Arc-based technology" can be
	added under Directed Energy Deposition (DED) processes.
	• In CO5 syllabus content, the topic "Acceptance Criteria" may
	be added.
	• The order of Course Outcomes (COs) can be changed as
	follows:
	• CO3 to CO2
	• CO5 to CO3
	• CO2 to CO5
23.5.13	Marketing Management
	Textbooks related to digital marketing may be added to
	support CO4 content.
	At least one textbook by an Indian author can be included
	in the syllabus.
	• In CO5 syllabus content, the word "Final" may be removed.
23.5.14	Accounting for Engineers
	• The course title may be changed to a more suitable name.
	• In CO4 syllabus content, the topics ARR (Accounting Rate of
	Return), Discounted Payback Period, and Depreciation can
	be added in an appropriate place.
	• The reference book Projects: Planning, Analysis, Selection,
	Financing, Implementation, and Review by Prasanna
	Chandra may be added.
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23.5.15	Entrepreneurship
	• The Course Title may be changed from "Entrepreneurship"
20 7 10	to "Entrepreneurship Development".
23.5.16	Design of Experiments
	The topic "Taguchi Technique" may be added to the syllabus
20 7 15	content at an appropriate place.
23.5.17	Carbon Capture
	• CO1 statement may be revised.
	• In CO1 syllabus content, the topic "Carbon Credit" can be
	added in an appropriate place.
23.5.18	Design a Startup
	• The course title may be changed from "Design a Startup" to
	"Startup and New Venture Management", "Business
	Startup", "Structuring a Startup", or "Guidance on Startup".
23.5.19	Fundamentals of Mechatronics and Robotics
	• The NPTEL author name, course title, followed by the link
	may be added to the syllabus.

The student members from the third year B.E. Mechanical Engineering program presented their views on the R2023 curriculum and its courses. They pointed out that the R2023 curriculum, particularly the concept of integrated courses and project-based courses, will provide greater insight and help enhance their skills, leading to better career opportunities. They also emphasized the need to incorporate more project-based learning wherever applicable.

The members had a brainstorming discussion and interaction among themselves. After discussion, Board of Studies of Mechanical Engineering resolved to recommend the changes in syllabus for the VI semester core courses (Annexure II) and few programme elective courses (Annexure III) prescribed for B.E. Mechanical Engineering under Regulation 2023, syllabus of few open elective courses prescribed for all U.G. Programmes (Annexure IV) under Regulation 2023, few one credit courses (Annexure V) prescribed for B.E. Mechanical Engineering under Regulation 2023, List of Course to be offered by the Department of Mechanical Engineering in the Vertical under Industrial Internet of Things (Annexure – VI), course design document for V semester core courses under R2023 (Annexure VII).

After carrying out the modifications suggested by the members, it will be presented to the Academic Council for further approval.

Dr. D. Venkatkumar, Professor / Mechanical Engineering proposed vote of thanks for their kind cooperation and the meeting came to an end.

#### Members Present for the 23rd BoS Meeting of Mechanical Engineering on 06.06.2025

CHAIRMAN	A SELECTION
Dr. S. Iyahraja. Professor & Head / Mechanical Engineering, NEC	I'm itilis
UNIVERSITY NOMINEE	
Dr. D Samuel Raj, Associate Professor / Mechanical Engineering, CEG Campus, Anna University, Chennai.	28 arlini 46/25
ACADEMIC EXPERTS	
Dr. M. Venkata Ramanan, Professor & Director / Institute for Energy Studies, CEG Campus, Anna University, Chennai.	M2 6/6/m
Dr. C. Prathap, Professor / Aerospace Engineering, Indian Institute of Space Science & Technology, Thiruvananthapuram.	6 50 N 2025
Dr. N.Siva Shanmugam, Professor / Mechanical Engg., NIT Trichy.	D Pot ob from
Dr. K.Hariharan, Associate Professor / Mechanical Engineering, IIT Madras.	X. Now have
MERITORIOUS ALUMNUS NOMINATED BY THE P	RINCIPAL
Mr. K Monickavasagom Pillai, Senior Principal Scientist, CSIR -National Aerospace Laboratories, Bengaluru.	& <u></u>
INDUSTRIAL EXPERTS	
Mr. V. Hari Babu, Senior Vice President, Head of Engineering & DOA Delegations Responsible Axiscades Technologies Ltd, Bengaluru.	Lana
Mr. S. Ravikumar, Chief Research & Innovation Testing and Validation, Iniciotek Private Limited, Chennai.	Allendra 125

Mr. A T Paary,	
Deputy General Manager/Mechanical · Static Dept.,	1 X t
Larsen & Toubro (L&T) Limited, Chennai	1. T. PARET
Mr. S.Balaji,	b
Assistant General Manager,	1. 16 se 31. 3 P. 20. 50
Hyundai Motor India Limited, Chennai.	1 paris 09.00
R & D EXPERT	
Dr. D. P. Sudhakar	
Deputy Director	1
ISRO · Indian Space Research Organization	4.00/00/cs
Mahendragiri, Triunelveli District.	1
INTERNAL MEMBERS	
Dr. D.Venkat Kumar,	211 - 10
Professor / Mechanical Engineering	J. W.
Dr. M. Kathiresan,	Valling
Professor / Mechanical Engineering	6, 1
Dr. R.Harichandran,	0 11-
Professor / Mechanical Engineering	4 P
Dr. I.Sankar,	1 Souden
Associate Professor / Mechanical Engineering	Je y
Dr. D.Vignesh Kumar,	d. 49hah 6/4/25
Associate Professor / Mechanical Engineering	d.11.
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Associate Professor / Mechanical Engineering	Wat -
Dr.A.Andrews,	1 1 10
Assistant Professor (S.G) / Mechanical Engineering	14 14 2/8
Dr. K.Thoufiq Mohammed,	<b>2</b>
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Assistant Professor (S.G) / Mechanical Engineering	147.7
Mr. B.Prince Abraham,	N.
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Ms.M.Rajeswari	Partilos
Assistant Professor / Mechanical Engineering	M. 499616125
Mr.N.Muthu Saravanan	A 40
Assistant Professor / Mechanical Engineering	Sugar 1902r
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Dr. T. Sakthi, Assistant Professor (S.G) / Humanities	Makel.	
STUDENT MEMBERS		
Mr. M. Mohamed Faisal, III Year / Mechanical Engineering	M. Monamid Foisol	
Mr. K. Vishnu, III Year / Mechanical Engineering	k wh	
Mr. M. Keerthi Kumar, III Year / Mechanical Engineering	M. Keth fun	

BOARD OF STUDIES/MECH. ENGG.

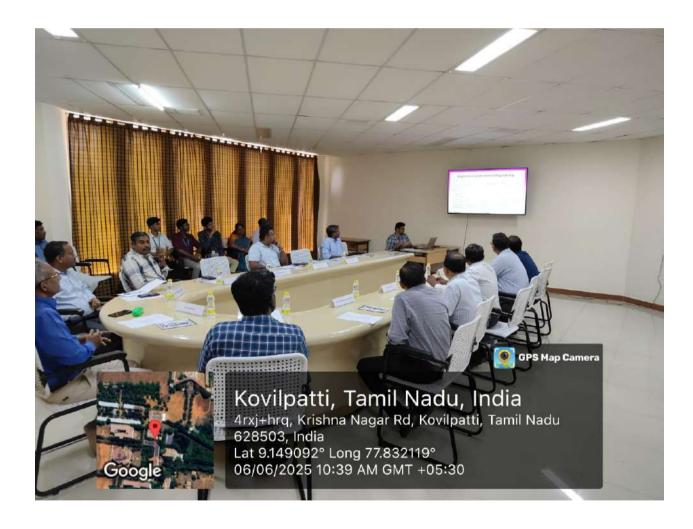
Dr. S. IYAHRAJA M. Tech. (IITM), Ph.D., Professor & Head,

Dept. of Mechanical Engineering, National Engineering College, K.R. Nagar, Kovilpatti - 628 503.

# 23<sup>rd</sup> BOARD OF STUDIES MEETING DEPARTMENT OF MECHANICAL ENGINEERING ON 06.06.2025







## 23<sup>rd</sup> BOARD OF STUDIES MEETING - DEPARTMENT OF ECE ON 31.05.2025







#### 23<sup>rd</sup> BOARD OF STUDIES MEETING - DEPARTMENT OF CSE, IT

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## 5<sup>th</sup> BOARD OF STUDIES MEETING - DEPARTMENT OF AI&DS ON 17.05.2025







## 23<sup>rd</sup> BOARD OF STUDIES MEETING - DEPARTMENT OF EEE ON 14.06.2025







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20 <sup>™</sup>	<b>BOARD OF STUDIES MEETING</b>	<ul> <li>DEPARTMENT OF CIVIL</li> </ul>	. ENGINEERING O	N 05.06.2025

#### 23<sup>rd</sup> ACADEMIC COUNCIL MEETING ON 28.06.2025





