



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

Tenth Meeting of BOS Members



Action Taken Report

The Tenth meeting of Board of Studies-Mechanical Engineering Board has been conducted on 2nd September 2025 at 10.00 am in Board Room. Expert members provided their valuable suggestions. The following are the details of action taken in response to the suggestions and discussion carried out during the meeting.

Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology

Suggestions	Action Taken	Justifications
In 24ME425 Supply Chain Management course, topic Latest trends in supply chain management may be altered with specific key words	The suggestions have been taken for consideration and details have been added in the minutes	The topic has been changed as 'AI & IoT in supply chain management'
Number of Experiments may be increased in 24ME422 Mechatronics systems and analysis	The suggestions have been taken for consideration and 8 experiments have been included	Modeling and analysis of pneumatic and hydraulic circuits using Automation Studio experiments have been added
Practical component may also include study and practice in types of transducers	Guidance has been taken for consideration and Study of various types of transducers - Flow Measurement- Temperature measurement are being added	Both theory and practice on transducers are helpful for taking up Industry projects

Dr. D.Robinson Smart, Professor, Karunya Institute of Technology and Sciences

Suggestions	Action Taken	Justifications
Latest edition of Text Books and Reference books have to be updated in the syllabus of 24ME422 Mechatronics Systems and Analysis	The suggestion has been taken and the following books have been updated <ul style="list-style-type: none"> Ajay Kumar et al. – Mechatronics: Concepts, Tools, Applications, and New Trends (circa late 2025) R.K. Rajput- A Textbook of Mechatronics" S.Chand Publication (2025) 	The availability of Latest edition of text books have been checked in Central Library and added

Er.Manikandan Pandian, Managing Director,M/s.Ankusam Engineering

Suggestions	Action Taken	Justifications
In the syllabus of 24ME425 Supply Chain Management course, Supply Chain Management: Strategy, Planning, and Operation by Sunil Chopra & Peter Meindl can be added as Text Book	Considered for inclusion.The specified book has been added in the syllabus	The availability of e book Supply Chain Management: Strategy, Planning, and Operation by Sunil Chopra & Peter Meindl has been verified

Dr. P S Sivasakthivel, Senior Associate Professor, SASTRA Deemed University

Suggestions	Action Taken	Justifications
Insisted to have 2 books in the text book category for both 24ME425 Supply Chain Management and 24ME422 Mechatronics Systems and Analysis	Suggestion is taken for consideration.Additional books have been added in the reference section	The avail;ability of Online resources on the specific topics have also been verified

Prof. A. Joseph Arokiam, Associate Professor, Arasu Engineering College

Suggestions	Action Taken	Justifications
Suggested to include elective courses like Lean Manufacturing, Failure Analysis and Design, Modern Robotics, Non Destructive Testing, Refrigeration and Air conditioning and Additive Manufacturing	Inputs on elective selection have been taken for consideration. The Electives are to be opted during VII Semester.	Courses from Verticals IV, V and VI will be offered. Preference will be given for Lean Manufacturing, Failure Analysis and Design and Additive Manufacturing

Dr.S.R.Rajabalayanan



HINDUSTHAN INSTITUTE OF TECHNOLOGY
COIMBATORE-32
Department of Mechanical Engineering



Tenth Board of Studies Meeting (2025-2026)

AGENDA

Venue: Board Room

Date:02.09.2025

- 10.00 am Welcome address
 Dr.S.R.Rajabalayanan,Chairman/Board of Studies
- 10.05 am Introductory Notes
 Dr.C.Natarajan,Principal
- 10.10am Presentation of
- Action Taken in the Ninth BoS meeting
 - Amendments on R-2024
 - Syllabus of Courses offered in VII & VIII Semester-R 2024

Dr.S.R.Rajabalayanan, Chairman/Board of Studies

Discussion

Concluding remarks

Tenth Board of Studies Meeting
HiTech MECH

Meeting ID

<https://meet.google.com/fzs-drbg-kfx>



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

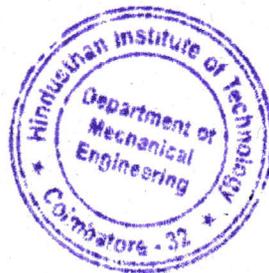
Tenth Meeting of BOS Members

Attendance Sheet



Name of The Programme /Board	B.E.Mechanical Engineering
Date and Time of Meeting	02.09.2025/10.00 a.m.
Venue	Board Room ,Hindusthan Institute of Technology

S.No	Name and Address of Members	Signature
1.	Dr.S.R.Rajabalayanan , Professor & Head, Department of Mechanical Engineering, Hindusthan Institute of Technology	
2.	Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore 641014	 02/09/25
3.	Dr. D.Robinson Smart, Professor, Department of Mechanical Engineering, Karunya Institute of Technology and Sciences,(Deemed to be University), Karunya Nagar,Coimbatore - 641 114	online
4.	Er.Manikandan Pandian, Managing Director M/s.Ankusam Engineering, 1/439, Near Indian bank, Chinniyampalayam post, Avinashi road, Coimbatore – 641062.	online
5.	Dr. P S Sivasakthivel Senior Associate Professor, School of Mechanical Engineering, SASTRA Deemed University , Thanjavur-613401	online
6.	A. Joseph Arokiam, Associate Professor, Department of Mechanical Engineering Arasu Engineering College Kumbagonam– 612 501.	online





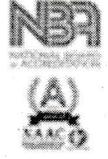
HINDUSTHAN INSTITUTE OF TECHNOLOGY

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Department of Mechanical Engineering

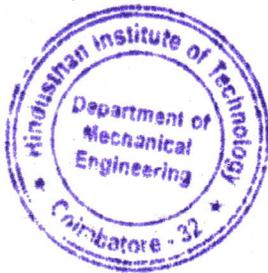
Tenth Meeting of BOS Members

Attendance Sheet



Name of The Programme /Board	B.E.Mechanical Engineering
Date and Time of Meeting	02.09.2025/10.00 a.m..
Venue	Board Room ,Hindusthan Institute of Technology

S.No	Name and Address of Members	Signature
7.	Dr.T.S.Praveen, Associate Professor/MECH	
8.	Mr.R.Selvendran, Associate Professor/MECH	
9.	Mr.M.Viswanath, Associate Professor/MECH	
10.	Mr.S.Mathivanan, Assistant Professor/MECH	
11	Mr.N.Dinesh, Assistant Professor/MECH	
12.	Mr.J.Dixon Jim Joseph, Assistant Professor/MECH	
13.	Mr.S.Sivasubramanian, Assistant Professor/MECH	
14.	Mr.Ganesh Kumar.K.V Assistant Professor/MECH	
15.	Mr.A.Jeevarathinam, Assistant Professor/MECH	
16.	Mr.S.Udhayakumar, Assistant Professor/MECH	
17.	Mr.K.Vigneshwaran Assistant Professor/MECH	





HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32



Department of Mechanical Engineering

Tenth Meeting of BOS Members



Minutes of the meeting

The Tenth meeting of Board of Studies-Mechanical Engineering Board has been conducted on 2nd September 2025 at 10.00 am in Board Room.

The following members were present

1.	Dr.C.Natarajan
2.	Dr.S.R.Rajabalayanan
3.	Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering,Coimbatore Institute of Technology
4.	Dr. D.Robinson Smart, Professor, Karunya Institute of Technology and Sciences (<i>On line mode</i>)
5.	Er.Manikandan Pandian, Managing Director, M/s.Ankusam Engineering (<i>On line mode</i>)
6.	Dr. P S Sivasakthivel, Senior Associate Professor, SASTRA Deemed University(<i>On line mode</i>)
7.	A. Joseph Arokiam, Associate Professor, Arasu Engineering College (<i>On line mode</i>)
8.	Dr.T.S.Praveen, Associate Professor/MECH
9.	Mr.R.Selvendran, Associate Professor/MECH
10.	Mr.M.Viswanath, Associate Professor/MECH
11.	Mr.S.Mathivanan, Assistant Professor/MECH
12.	Mr.N.Dinesh, Assistant Professor/MECH
13.	Mr.J.Dixon Jim Joseph, Assistant Professor/MECH
14.	Mr.S.Sivasubramanian, Assistant Professor/MECH
15.	Mr.Ganesh Kumar.K.V Assistant Professor/MECH
16.	Mr.A.Jeevarathinam, Assistant Professor/MECH
17.	Mr.S.Udhayakumar, Assistant Professor/MECH
18.	Mr.K.Vigneshwaran Assistant Professor/MECH

The following points have been discussed

The meeting started with welcome address by Dr.S.R.Rajabalayanan.

Prior to the discussion, the details of action taken with respect to Ninth Board of Studies meeting have been explained to the members and got approval

1.Dr.S.R.Rajabalayanan presented the curricula for Regulations 2024 which is to be followed for the students to be admitted during 2024-25 academic year.

2.The following Amendments have been made in Regulations-2024/Mechanical Engineering Curriculum and got approval from BoS members

2.1 Revision of courses in Curriculum: in Semester III,24EC305- Basic Electrical and Electronics Engineering has been modified as Integrated Theory and Laboratory course with 3 credits

2.2 In Semester IV,24ME425- with 3 credits has been introduced

2.3 In Semester VII, 24ME422- Mechatronics systems and analysis has been introduced as Integrated Theory and Laboratory with 3 credits

2.4 In Semester VII, an Employability Enhancement Course of Automotive Fabrication Training has been introduced with 1 credit

3.The syllabi for following courses of V & VI Semester under Regulations 2024 have been discussed

S.No	Semester	Course Code	Title of the course
1	IV	24ME425	Supply Chain Management
2	VII	24ME422	Mechatronics systems and analysis
3	VIII	24ME424	Project Work

4.Suggestions given by Experts

4.1 **Dr.G.Suresh Kannan**, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology has suggested the following points

- In 24ME425 Supply Chain Management course,topic Latest trends in supply chain management may be altered with specific key words
- Number of Experiments may be increased in 24ME422 Mechatronics systems and analysis
- Practical component may also include study and practice in types of transducers

4.2 **Dr. D.Robinson Smart**, Professor, Karunya Institute of Technology and Sciences has suggested the following points

- Latest edition of Text Books and Reference books have to be updated in the syllabus of 24ME422 Mechatronics Systems and Analysis

4.3 **Er.Manikandan Pandian**, Managing Director, M/s.Ankusam Engineering has suggested the following points

- In the syllabus of 24ME425 Supply Chain Management course, Supply Chain Management: Strategy, Planning, and Operation by Sunil Chopra & Peter Meindl can be added as Text Book

4.4 **Dr. P S Sivasakthivel**, Senior Associate Professor, SASTRA Deemed University has suggested the following points

- Insisted to have 2 books in the text book category for both 24ME425 Supply Chain Management and 24ME422 Mechatronics Systems and Analysis

4.5 **Prof. A. Joseph Arokiam**, Associate Professor, Arasu Engineering College has suggested the following points

- Suggested to include elective courses like Lean Manufacturing, Failure Analysis and Design, Modern Robotics, Non Destructive Testing, Refrigeration and Air conditioning and Additive Manufacturing

The meeting ended with concluding remarks by Dr.S.R.Rajabalayanan, Chairman of Board of Studies, Mechanical Engineering.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

Tenth Meeting of BOS Members

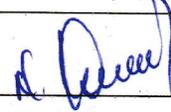
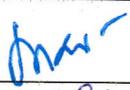
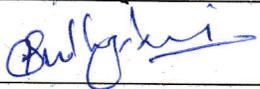
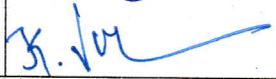
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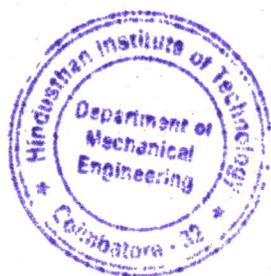


Minutes of the meeting

S. No.	Members	Name, Designation and Address	Signature
1.	Head of the Department (Chairman)	Dr.S.R.Rajabalayanan , Professor & Head, Department of Mechanical Engineering, Hindusthan Institute of Technology	
2.	Subject Experts from outside the Parent University	Dr. P S Sivasakthivel , Senior Associate Professor, School of Mechanical Engineering, SASTRA Deemed University , Thanjavur-613401	Online mode/ Acknowledgement enclosed
3.		Dr. D.Robinson Smart , Professor, Department of Mechanical Engineering, Karunya Institute of Technology and Sciences,(Deemed to be University), Karunya Nagar,Coimbatore - 641 114	Online mode/ Acknowledgement enclosed
4.	Anna University Nominee	Dr.G.Suresh Kannan , Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology,Coimbatore-641014	 02/09/2025
5.	Representative from Industry	Er.Manikandan Pandian , Managing Director,M/s.Ankusam Engineering, 1/439, Chinniyampalayam post, Coimbatore – 641062.	Online mode/ Acknowledgement enclosed
6.	Post Graduate Meritorious Alumni	A. Joseph Arokiam , Associate Professor, Department of Mechanical Engineering Arasu Engineering College, Kumbagonam– 612 501.	Online mode/ Acknowledgement enclosed



S.No	Name and Address of Members	Signature
7.	Dr.T.S.Praveen, Associate Professor/MECH	
8.	Mr.R.Selvendran, Associate Professor/MECH	
9.	Mr.M.Viswanath, Associate Professor/MECH	
10.	Mr.S.Mathivanan, Assistant Professor/MECH	
11	Mr.N.Dinesh, Assistant Professor/MECH	
12.	Mr.J.Dixon Jim Joseph, Assistant Professor/MECH	
13.	Mr.S.Sivasubramanian, Assistant Professor/MECH	
14.	Mr.K.V.Ganesh Kumar. Assistant Professor/MECH	
15.	Mr.A.Jeevarathinam, Assistant Professor/MECH	
16.	Mr.S.Udhayakumar, Assistant Professor/MECH	
17.	Mr.K.Vigneshwaran Assistant Professor/MECH	





Dr.S.R.RAJABALAYANAN

Dr.S.R. RAJABALAYANAN
 Professor & Head
 Department of Mechanical Engineering
 Hindusthan Institute of Technology
 Coimbatore - 641 032.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

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Department of Mechanical Engineering

Tenth Meeting of BOS Members



Action Taken Report

The Tenth meeting of Board of Studies-Mechanical Engineering Board has been conducted on 2nd September 2025 at 10.00 am in Board Room. Expert members provided their valuable suggestions. The following are the details of action taken in response to the suggestions and discussion carried out during the meeting.

Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology

Suggestions	Action Taken	Justifications
In 24ME425 Supply Chain Management course, topic Latest trends in supply chain management may be altered with specific key words	The suggestions have been taken for consideration and details have been added in the minutes	The topic has been changed as 'AI & IoT in supply chain management'
Number of Experiments may be increased in 24ME422 Mechatronics systems and analysis	The suggestions have been taken for consideration and 8 experiments have been included	Modeling and analysis of pneumatic and hydraulic circuits using Automation Studio experiments have been added
Practical component may also include study and practice in types of transducers	Guidance has been taken for consideration and Study of various types of transducers - Flow Measurement- Temperature measurement are being added	Both theory and practice on transducers are helpful for taking up Industry projects

Dr. D.Robinson Smart, Professor, Karunya Institute of Technology and Sciences

Suggestions	Action Taken	Justifications
Latest edition of Text Books and Reference books have to be updated in the syllabus of 24ME422 Mechatronics Systems and Analysis	The suggestion has been taken and the following books have been updated <ul style="list-style-type: none"> • Ajay Kumar et al. – Mechatronics: Concepts, Tools, Applications, and New Trends (circa late 2025) • R.K. Rajput- A Textbook of Mechatronics" S.Chand Publication (2025) 	The availability of Latest edition of text books have been checked in Central Library and added

Er.Manikandan Pandian, Managing Director,M/s.Ankusam Engineering

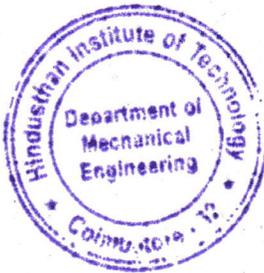
Suggestions	Action Taken	Justifications
In the syllabus of 24ME425 Supply Chain Management course, Supply Chain Management: Strategy, Planning, and Operation by Sunil Chopra & Peter Meindl can be added as Text Book	Considered for inclusion.The specified book has been added in the syllabus	The availability of e book Supply Chain Management: Strategy, Planning, and Operation by Sunil Chopra & Peter Meindl has been verified

Dr. P S Sivasakthivel, Senior Associate Professor, SASTRA Deemed University

Suggestions	Action Taken	Justifications
Insisted to have 2 books in the text book category for both 24ME425 Supply Chain Management and 24ME422 Mechatronics Systems and Analysis	Suggestion is taken for consideration.Additional books have been added in the reference section	The avail;ability of Online resources on the specific topics have also been verified

Prof. A. Joseph Arokiam, Associate Professor, Arasu Engineering College

Suggestions	Action Taken	Justifications
Suggested to include elective courses like Lean Manufacturing, Failure Analysis and Design, Modern Robotics, Non Destructive Testing, Refrigeration and Air conditioning and Additive Manufacturing	Inputs on elective selection have been taken for consideration. The Electives are to be opted during VII Semester.	Courses from Verticals IV, V and VI will be offered. Preference will be given for Lean Manufacturing, Failure Analysis and Design and Additive Manufacturing



S.R. Rajabalan

Dr.S.R.Rajabalayanan

Dr.S.R. RAJABALAYANAN
Professor & Head
Department of Mechanical Engineering
Hindusthan Institute of Technology
Coimbatore - 641 032.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

Ninth Meeting of BOS Members



Action Taken Report

The Ninth meeting of Board of Studies-Mechanical Engineering Board has been conducted on 12th March 2025 at 10.00 am in Board Room. Expert members provided their valuable suggestions. The following are the details of action taken in response to the suggestions and discussion carried out during the meeting.

Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology

Suggestions	Action Taken	Justifications
The details of courses exempted/additional courses for the readmitted Student may be included	The suggestions have been taken for consideration and details have been added in the minutes	Migration from R-2020 (168 Credits) To R-2022 (165 Credits)
In 24TP709 Industry Internship / In Plant Training Certification course, Total number of hours has to be added	The suggestions have been taken for consideration and No of periods:120 has been added in the syllabus	The minimum duration for Industry Internship / In Plant Training Certification course is 15 days. 15 X 8 Periods =120
No.of Text books in Design of Machine Elements may be limited to 2,others may be moved to reference	The following book has been moved to reference division K.M.Arunraja, J.Dixon Jim Joseph and S.Sivasubramanian, "Design of Machine Elements"2 nd edition, ARS Publications, 2020	Taken in to consideration and listed only 2 text books which are covering all the topics

Dr. D.Robinson Smart, Professor, Karunya Institute of Technology and Sciences

Suggestions	Action Taken	Justifications
In Design of Machine Elements course, design of revetted joints may be included	The suggestion has been taken and included in III Unit of 24ME413- Design of Machine Elements	The third unit covers Temporary and Permanent Joints, so design of revetted joints is added with welded joints
The course outcomes of Computer Aided Engineering Analysis may include specifically temperature distribution of one dimensional heat transfer	Suggestion is taken for revision and CO-5 has been modified	CO5:Statement 'Determine temperature distribution of one dimensional heat transfer problems using one dimensional finite elements' is matching to experiment on thermal stress analysis

Er.Manikandan Pandian, Managing Director, M/s. Ankusam Engineering

Suggestions	Action Taken	Justifications
In Heat and Mass Transfer, use of Approved Data Books like Steam Tables may be included in the course information	Considered for inclusion. Course information is added as 'Use of Approved HMT Data Book and Steam Tables is permitted'	In 24ME419- Heat and Mass Transfer course, Phase Change Heat Transfer And Heat Exchangers topics are included. So, steam tables data book is added with heat transfer data book

Dr. P S Sivasakthivel, Senior Associate Professor, SASTRA Deemed University

Suggestions	Action Taken	Justifications
Latest technologies like Atomic Force Microscopy can be added in Metrology and Measurements course	Atomic Force Microscopy (AFM) with Laser-Based Technology topic is added in III Unit of 24ME415- Metrology and Measurements	Unit III- covers Laser and Advances in Metrology,so Atomic Force Microscopy concepts are added
In Design of Transmission Systems, Machine design vol-2 (Design of transmission Systems) by S.Md.Jalaludeen, may be listed in Reference books	Suggestion is taken for revision.The book details have been moved to reference list	Standard text books are being listed in text books catagory

Prof. A. Joseph Arokiam, Associate Professor, Arasu Engineering College

Suggestions	Action Taken	Justifications
Suggested to check for time duration to complete 18 experiments in Thermal Engineering Laboratory course	Laboratory Practice duration has been checked and few experiments have been combined	Experiments in I.C.Engines and Heat transfer laboratory have been combined,as they require lesser duration for completion.
In 24ME420-Computer Aided Engineering Analysis,one of the text books- Finite Element: An Introduction to Finite Element Method by Reddy J.N may be listed under references	Suggestion has been considered and moved to reference listing	Standard books on Finite Element Method and Finite Element Analysis are listed in text books catagory



Rajabalan
13/03/2025
Dr.S.R.Rajabalayanan

Dr.S.R. RAJABALAYANAN
Professor & Head
Department of Mechanical Engineering
Hindusthan Institute of Technology
Coimbatore - 641 032.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32



Department of Mechanical Engineering

Ninth Meeting of BOS Members



Minutes of the meeting

The Ninth meeting of Board of Studies-Mechanical Engineering Board has been conducted on 12th March 2025 at 10.00 am in Board Room.

The following members were present

1.	Dr.C.Natarajan
2.	Dr.S.R.Rajabalayanan
3.	Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering,Coimbatore Institute of Technology
4.	Dr. D.Robinson Smart, Professor, Karunya Institute of Technology and Sciences (<i>On line mode</i>)
5.	Er.Manikandan Pandian, Managing Director, M/s.Ankusam Engineering (<i>On line mode</i>)
6.	Dr. P S Sivasakthivel, Senior Associate Professor, SASTRA Deemed University(<i>On line mode</i>)
7.	A. Joseph Arokiam, Associate Professor, Arasu Engineering College (<i>On line mode</i>)
8.	Dr.T.S.Praveen, Associate Professor/MECH
9.	Mr.R.Selvendran, Associate Professor/MECH
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16.	Mr.A.Jeevarathinam, Assistant Professor/MECH
17.	Mr.S.Udhayakumar, Assistant Professor/MECH
18.	Mr.K.Vigneshwaran Assistant Professor/MECH

The following points have been discussed

The meeting started with welcome address by Dr.S.R.Rajabalayanan. Dr.C.Natarajan provided opening remarks and objectives of Eighth BoS meeting

Prior to the discussion, the details of action taken with respect to Eighth Board of Studies meeting have been explained to the members and got approval

1.Dr.S.R.Rajabalayanan presented the curricula for Regulations 2024 which is to be followed for the students to be admitted during 2024-25 academic year. It is also applicable for the students to be admitted during 2025-26 (Lateral Entry) under AICTE-Working Professionals Degree programme scheme

2.The following Amendments have been made in Regulations-2024/Mechanical Engineering Curriculum and got approval from BoS members

2.1.As per the alignment of The National Board of Accreditation (NBA) with Washington Accord's Knowledge Profiles (WK) and the revised Program Outcomes (POs),it is proposed to have 11 POs in Regulations-2024/Mechanical Engineering Curriculum

PO1 ENGINEERING KNOWLEDGE: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization applicable to compute science and engineering discipline to develop to the solution of complex engineering problems.

PO2 PROBLEM ANALYSIS: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development.

PO3 DESIGN /DEVELOPMENT OF SOLUTIONS: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required.

PO4 CONDUCT INVESTIGATION OF COMPLEX PROBLEMS: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions.

PO5 ENGINEERING TOOL USAGE: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modeling recognizing their limitations to solve complex engineering problems.

PO6 THE ENGINEER AND THE WORLD: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment.

PO7 ETHICS: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws.

PO8 INDIVIDUAL AND COLLABORATIVE TEAM WORK: Function effectively as an

individual, and as a member or leader in diverse/multi-disciplinary teams.

PO9 COMMUNICATION: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.

PO10 PROJECT MANAGEMENT AND FINANCE: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO11 LIFE LONG LEARNING: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change

2.2. Consent of BoS members is requested to conversion of Regulations & Curriculum for the readmitted student as per the following details

S.No	Reg.No	Name	Readmitted during	Change in Regulations
1.	720821105045 (Old Number)	SUMANTH A.P	2025-26 ODD Sem(V Semester)	From R-2020 (168 Credits) To R-2022 (168 Credits)
It is informed that there is no requirement for exemption or additional courses to be studied, as the number of credits are same in both R-2020 & R-2022 and no repetition in the courses				

3. The syllabi for following courses of V & VI Semester under Regulations 2024 have been discussed

S.No	Semester	Course Code	Title of the course
1	V	24ME413	Design of Machine Elements
2	V	24ME414	Dynamics of Machinery
3	V	24ME415	Metrology and Measurements
4	V	24ME420	Computer Aided Engineering Analysis
5	V	24ME416	Kinematics and Dynamics Laboratory
6	V	24ME417	Metrology Laboratory
7	VI	24ME418	Design of Transmission Systems
8	VI	24ME419	Heat and Mass Transfer
9	VI	24ME421	Thermal Engineering Laboratory
10	VI	24TP709	Industry Internship /In plant Training Certification

4. Suggestions given by Experts

4.1 **Dr.G.Suresh Kannan**, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology has suggested the following points

- The details of courses exempted/additional courses for the readmitted Student may be included
- In 24TP709 Industry Internship / In Plant Training Certification course, Total number of hours has to be added
- No. of Text books in Design of Machine Elements may be limited to 2, others may be moved to reference

4.2 **Dr. D.Robinson Smart**, Professor, Karunya Institute of Technology and Sciences has suggested the following points

- In Design of Machine Elements course, design of revetted joints may be included
- The course outcomes of Computer Aided Engineering Analysis may include specifically temperature distribution of one dimensional heat transfer

4.3 **Er.Manikandan Pandian**, Managing Director, M/s. Ankusam Engineering has suggested the following points

- In Heat and Mass Transfer, use of Approved Data Books like Steam Tables may be included in the course information

4.4 **Dr. P S Sivasakthivel**, Senior Associate Professor, SASTRA Deemed University has suggested the following points

- Latest technologies like Atomic Force Microscopy can be added in Metrology and Measurements course
- In Design of Transmission Systems, Machine design vol-2 (Design of transmission Systems) by S.Md.Jalaludeen, may be listed in Reference books

4.5 **Prof. A. Joseph Arokiam**, Associate Professor, Arasu Engineering College has suggested the following points

- Suggested to check for time duration to complete 18 experiments in Thermal Engineering Laboratory course
- In 24ME420-Computer Aided Engineering Analysis, one of the text books- Finite Element: An Introduction to Finite Element Method by Reddy J.N may be listed under references

The meeting ended with concluding remarks by Dr.S.R.Rajabalayanan, Chairman of Board of Studies, Mechanical Engineering.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

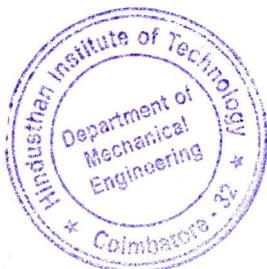
Ninth Meeting of BOS Members

12-03-2025



Minutes of the meeting

S. No.	Members	Name, Designation and Address	Signature
1.	Head of the Department (Chairman)	Dr.S.R.Rajabalayanan , Professor & Head, Department of Mechanical Engineering, Hindusthan Institute of Technology	
2.	Subject Experts from outside the Parent University	Dr. P S Sivasakthivel , Senior Associate Professor, School of Mechanical Engineering, SASTRA Deemed University , Thanjavur-613401	Online mode/ Acknowledgement enclosed
3.		Dr. D.Robinson Smart , Professor, Department of Mechanical Engineering, Karunya Institute of Technology and Sciences,(Deemed to be University), Karunya Nagar,Coimbatore - 641 114	Online mode/ Acknowledgement enclosed
4.	Anna University Nominee	Dr.G.Suresh Kannan , Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology,Coimbatore-641014	 12/03/2025
5.	Representative from Industry	Er.Manikandan Pandian , Managing Director,M/s.Ankusam Engineering, 1/439, Chinniyampalayam post, Coimbatore – 641062.	Online mode/ Acknowledgement enclosed
6.	Post Graduate Meritorious Alumni	A. Joseph Arokiam , Associate Professor, Department of Mechanical Engineering Arasu Engineering College, Kumbagonam– 612 501.	Online mode/ Acknowledgement enclosed



S.No	Name and Address of Members	Signature
7.	Dr.T.S.Praveen, Associate Professor/MECH	TSP
8.	Mr.R.Selvendran, Associate Professor/MECH	RSelvendran
9.	Mr.M.Viswanath, Associate Professor/MECH	MV
10.	Mr.S.Mathivanan, Assistant Professor/MECH	S. Mathivanan
11	Mr.N.Dinesh, Assistant Professor/MECH	N. Dinesh
12.	Mr.J.Dixon Jim Joseph, Assistant Professor/MECH	J. Dixon Jim Joseph
13.	Mr.S.Sivasubramanian, Assistant Professor/MECH	S. Sivasubramanian
14.	Mr.K.V.Ganesh Kumar. Assistant Professor/MECH	K.V. Ganesh Kumar
15.	Mr.A.Jeevarathinam, Assistant Professor/MECH	A. Jeevarathinam
16.	Mr.S.Udhayakumar, Assistant Professor/MECH	S. Udhayakumar
17.	Mr.K.Vigneshwaran Assistant Professor/MECH	K. Vigneshwaran



Dr. S.R. Rajabalan
12/3/2025

Dr.S.R.RAJABALAYANAN

Dr.S.R. RAJABALAYANAN
Professor & Head
Department of Mechanical Engineering
Hindusthan Institute of Technology
Colimbatore - 641 032.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

Eighth Meeting of BOS Members



Action Taken Report

The Eighth meeting of Board of Studies-Mechanical Engineering Board has been conducted on 12th August 2024 at 11.00 am in Board Room. Expert members provided their valuable suggestions. The following are the details of action taken in response to the suggestions and discussion carried out during the meeting.

Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology

Suggestions	Action Taken	Justifications
In 24ME405 IoT for Fluid Power Systems, “Basic components of pneumatic systems” can be included	The suggestions have been taken for consideration and included in III Unit of 24ME405 IoT for Fluid Power Systems	As the III unit describes on Hydraulic & Pneumatic Systems, the topic on Basic components of pneumatic systems has been included
Credit distribution in the syllabus may be checked.	Unitwise credits have been checked as per the content delivery. Total credits:171	24ME424-Project Work :12 Credits 24MC801 & 24MC802:Additional Credits added
CO's of courses may be given in uniform numbers.	24ME402-Strength of Materials & 24ME404 Engineering Thermodynamics: CO s have been revised to 5	For effective mapping of POs and COs

Dr. D.Robinson Smart, Professor, Karunya Institute of Technology and Sciences

Suggestions	Action Taken	Justifications
In the course 24ME403- Production Technology, fourth unit topic may be rewritten as special machines & tools instead of special machine tools	The suggestion has been taken and changed as Special Machines & Tools	The third unit covers special machining processes and corresponding tools

Number of text books for all courses may be uniform(either 2 or 3)	Number of text books have been limited to 2.	For each course the topics have been verified with text books.Additional numbers of reference books have been also added
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Er.Manikandan Pandian, Managing Director,M/s.Ankusam Engineering

Suggestions	Action Taken	Justifications
In Computer Aided Design and Manufacturing-24ME407, topics on advanced simulation techniques may be incorporated	The topic on Introduction of CAD / CAM package has been added in Third Unit	The advanced modelling and simulation concepts have been included

Dr. P S Sivasakthivel, Senior Associate Professor, SASTRA Deemed University

Suggestions	Action Taken	Justifications
An introduction to NDT techniques may be included in 24ME402- Strength of Materials	As Non Destructive Testing course is seperately available,the topics are not being included	Value added course on NDT is also planned
In 24ME403- Production Technology,brief sections on emerging manufacturing technologies like additive manufacturing (3D printing) and sustainable practices could further enrich the course content	24ME403- Production Technology,is delivered as the basic course for Mechanical Engineers,it is decided to cover the emering and sustainable practices as seminars/case studies	Courses covering emerging manufacturing technologies and sustainable practices are delivered in the Vertical III-Production Process Development

Prof. A. Joseph Arokiam, Associate Professor, Arasu Engineering College

Suggestions	Action Taken	Justifications
In 24ME404- Engineering Thermodynamics, advanced topics, such as thermodynamic analysis of renewable energy systems or exergy analysis may be included	Exergy analysis has been added as Availability Analysis in II Unit	Thermodynamic analysis of renewable energy systems will be covered in the capston assesments/case studies

Inclusion of edge computing or AI integration in 24ME405- IoT for fluid power systems could further enrich the course content	The suggested topics are being covered in Unit IV & V	Specific topics on edge computing or AI integration will be covered in the capston assesments/case studies
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S.R. Rajabalan

Dr.S.R.Rajabalayanan,
 Professor & Head, Department of Mechanical Engineering,
 Hindusthan Institute of Technology

Dr.S.R. RAJABALAYANAN
 Professor & Head
 Department of Mechanical Engineering
 Hindusthan Institute of Technology
 Coimbatore - 641 032.



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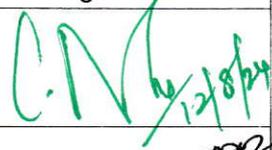
Department of Mechanical Engineering

Eighth Meeting of BOS Members

Attendance Sheet



Name of The Programme /Board	B.E.Mechanical Engineering
Date and Time of Meeting	12.08.2024/11.00 a.m.
Venue	Board Room ,Hindusthan Institute of Technology

S.No	Name and Address of Members	Signature
1.	Dr.C.Natarajan Principal Hindusthan Institute of Technology	
2.	Dr.S.R.Rajabalayanan , Professor & Head, Department of Mechanical Engineering, Hindusthan Institute of Technology	
3.	Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore 641014	
4.	Dr. D.Robinson Smart, Professor, Department of Mechanical Engineering, Karunya Institute of Technology and Sciences,(Deemed to be University), Karunya Nagar,Coimbatore - 641 114	online
5.	Er.Manikandan Pandian, Managing Director M/s.Ankusam Engineering, 1/439, Near Indian bank, Chinniyampalayam post, Avinashi road, Coimbatore – 641062.	online
6.	Dr. P S Sivasakthivel Senior Associate Professor, School of Mechanical Engineering, SASTRA Deemed University , Thanjavur-613401	online
7.	A. Joseph Arokiam, Associate Professor, Department of Mechanical Engineering Arasu Engineering College Kumbagonam– 612 501.	online



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

Eighth Meeting of BOS Members

Attendance Sheet



Name of The Programme /Board	B.E.Mechanical Engineering
Date and Time of Meeting	12.08.2024/11.00 a.m.
Venue	Board Room ,Hindusthan Institute of Technology

S.No	Name and Address of Members	Signature
8.	Dr.T.S.Praveen,Associate Professor/MECH	
9.	Mr.R.Selvendran, Associate Professor/MECH	
10.	Mr.M.Viswanath, Associate Professor/MECH	
11.	Mr.S.Mathivanan, Assistant Professor/MECH	
12.	Mr.N.Dinesh, Assistant Professor/MECH	
13.	Mr.J.Dixon Jim Joseph, Assistant Professor/MECH	
14.	Mr.S.Sivasubramanian, Assistant Professor/MECH	
15.	Mr.Ganesh Kumar.K.V Assistant Professor/MECH	
16.	Mr.A.Jeevarathinam, Assistant Professor/MECH	
17.	Mr.S.Udhayakumar, Assistant Professor/MECH	
18.	Mr.K.Vigneshwaran Assistant Professor/MECH	



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

Eigth Meeting of BOS Members



Minutes of the meeting

The Eigth meeting of Board of Studies-Mechanical Engineering Board has been conducted on 12th August 2024 at 11.00 am in Board Room.

The following members were present

1.	Dr.C.Natarajan
2.	Dr.S.R.Rajabalayanan
3.	Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering,Coimbatore Institute of Technology
4.	Dr. D.Robinson Smart, Professor, Karunya Institute of Technology and Sciences (<i>On line mode</i>)
5.	Er.Manikandan Pandian, Managing Director, M/s.Ankusam Engineering (<i>On line mode</i>)
6.	Dr. P S Sivasakthivel, Senior Associate Professor, SASTRA Deemed University(<i>On line mode</i>)
7.	A. Joseph Arokiam, Associate Professor, Arasu Engineering College (<i>On line mode</i>)
8.	Dr.T.S.Praveen, Associate Professor/MECH
9.	Mr.R.Selvendran, Associate Professor/MECH
10.	Mr.M.Viswanath, Associate Professor/MECH
11.	Mr.S.Mathivanan, Assistant Professor/MECH
12.	Mr.N.Dinesh, Assistant Professor/MECH
13.	Mr.J.Dixon Jim Joseph, Assistant Professor/MECH
14.	Mr.S.Sivasubramanian, Assistant Professor/MECH
15.	Mr.Ganesh Kumar.K.V Assistant Professor/MECH
16.	Mr.A.Jeevarathinam, Assistant Professor/MECH
17.	Mr.S.Udhayakumar, Assistant Professor/MECH
18.	Mr.K.Vigneshwaran Assistant Professor/MECH

The following points have been discussed

The meeting started with welcome address by Dr.S.R.Rajabalayanan. Dr.C.Natarajan provided opening remarks and objectives of Eighth BoS meeting

Prior to the discussion, the details of action taken with respect to seventh Board of Studies meeting have been explained to the members and got approval

1.Dr.S.R.Rajabalayanan presented the curricula for Regulations 2024 which is to be followed for the students to be admitted during 2024-25 academic year. It is also applicable for the students to be admitted during 2025-26 (Lateral Entry) under AICTE-Working Professionals Degree programme scheme

2.The syllabi for following courses of III & IV Semester under Regulations 2024 have been discussed

S.No	Semester	Course Code	Title of the course
1	III	24ME402	Strength of Materials
2	III	24ME403	Production Technology
3	III	24ME404	Engineering Thermodynamics
4	III	24ME405	IoT for Fluid Power Systems
5	III	24ME406	Manufacturing Technology Laboratory - I
6	IV	24ME407	Computer Aided Design and Manufacturing
7	IV	24ME408	Fluid Mechanics and Machinery
8	IV	24ME409	Kinematics of Machinery
9	IV	24ME410	Thermal Engineering
10	IV	24ME411	Fluid Mechanics and Strength of Materials Laboratory
11	IV	24ME412	Manufacturing Technology Laboratory - II

In 22ME420-Thermal Engineering Laboratory,Syllabus has been revised by adding Heat transfer experiments

3. It is decided to have assessment pattern for the course 24ME407- Computer Aided Design and Manufacturing which is a Theory Integrated Practical course.

L	T	P	C	Internal Assessment		End Semester Examination
				Assessment I	Assessment II	
2	0	4	4	Theory 25 %	Laboratory 25 %	Theory 15 % Laboratory 35 %

4. Suggestions given by Experts

4.1 **Dr.G.Suresh Kannan**, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology has suggested the following points

- In 24ME405 IoT for Fluid Power Systems, “Basic components of pneumatic systems” can be included.
- Credit distribution in the syllabus may be checked.
- CO’s of courses may be given in uniform numbers.

4.2 **Dr. D.Robinson Smart**, Professor, Karunya Institute of Technology and Sciences has suggested the following points

- In the course 24ME403- Production Technology, fourth unit topic may be rewritten as special machines & tools instead of special machine tools
- Number of text books for all courses may be uniform (either 2 or 3)

4.3 **Er.Manikandan Pandian**, Managing Director, M/s.Ankusam Engineering has suggested the following points

- In Computer Aided Design and Manufacturing-24ME407, topics on advanced simulation techniques may be incorporated

4.4 **Dr. P S Sivasakthivel**, Senior Associate Professor, SASTRA Deemed University has suggested the following points

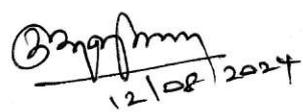
- An introduction to NDT techniques may be included in 24ME402- Strength of Materials
- In 24ME403- Production Technology, brief sections on emerging manufacturing technologies like additive manufacturing (3D printing) and sustainable practices could further enrich the course content

6.5 **Prof. A. Joseph Arokiam**, Associate Professor, Arasu Engineering College has suggested the following points

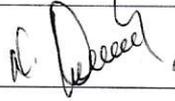
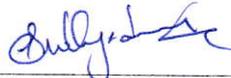
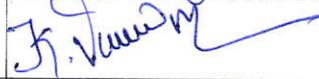
- In 24ME404- Engineering Thermodynamics, advanced topics, such as thermodynamic analysis of renewable energy systems or exergy analysis may be included
- Inclusion of edge computing or AI integration in 24ME405- IoT for fluid power systems could further enrich the course content

The meeting ended with concluding remarks by Dr.S.R.Rajabalayanan, Chairman of Board of Studies, Mechanical Engineering.

Minutes of the meeting

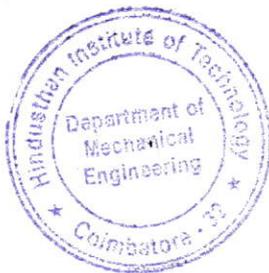
S. No.	Members	Name, Designation and Address	Signature
1.	Head of the Department (Chairman)	Dr.S.R.Rajabalayanan , Professor & Head, Department of Mechanical Engineering, Hindusthan Institute of Technology	
2.	Subject Experts from outside the Parent University	Dr. P S Sivasakthivel , Senior Associate Professor, School of Mechanical Engineering, SASTRA Deemed University , Thanjavur-613401	Online mode/ Acknowledgement enclosed
3.		Dr. D.Robinson Smart , Professor, Department of Mechanical Engineering, Karunya Institute of Technology and Sciences,(Deemed to be University), Karunya Nagar,Coimbatore - 641 114	Online mode/ Acknowledgement enclosed
4.	Anna University Nominee	Dr.G.Suresh Kannan , Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology,Coimbatore-641014	 12/08/2024
5.	Representative from Industry	Er.Manikandan Pandian , Managing Director,M/s.Ankusam Engineering, 1/439, Chinniyampalayam post, Coimbatore – 641062.	Online mode/ Acknowledgement enclosed
6.	Post Graduate Meritorious Alumni	A. Joseph Arokiam , Associate Professor, Department of Mechanical Engineering Arasu Engineering College, Kumbagonam– 612 501.	Online mode/ Acknowledgement enclosed



S.No	Name and Address of Members	Signature
7.	Dr.T.S.Praveen, Associate Professor/MECH	
8.	Mr.R.Selvendran, Associate Professor/MECH	
9.	Mr.M.Viswanath, Associate Professor/MECH	
10.	Mr.S.Mathivanan, Assistant Professor/MECH	
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12.	Mr.J.Dixon Jim Joseph, Assistant Professor/MECH	
13.	Mr.S.Sivasubramanian, Assistant Professor/MECH	
14.	Mr.K.V.Ganesh Kumar. Assistant Professor/MECH	
15.	Mr.A.Jeevarathinam, Assistant Professor/MECH	
16.	Mr.S.Udhayakumar, Assistant Professor/MECH	
17.	Mr.K.Vigneshwaran Assistant Professor/MECH	



Dr.S.R.RAJABALAYANAN



Dr. S.R. RAJABALAYANAN
 Professor & Head
 Department of Mechanical Engineering
 Hindusthan Institute of Technology
 Coimbatore - 641 032.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

Seventh Meeting of BOS Members



Action Taken Report

The Seventh meeting of Board of Studies-Mechanical Engineering Board has been conducted on 12th March 2024 at 11.00 am in Board Room. Expert members provided their valuable suggestions. The following are the details of action taken in response to the suggestions and discussion carried out during the meeting.

Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology

Suggestions	Action Taken	Justifications
No.of hours for project work may be revised.	Total number of hours allotted for 24ME424- Project Work is 12.	As per the regulations 2024, the entire VIII semester is allotted for taking up Project work, So 24ME424- Project Work is given 12 credits
Industry 4.0 topics may be included.	Suggestions are taken for consideration. The courses pertaining to Industry 4.0 are being included in the verticals	Courses on Additive manufacturing, Digital Manufacturing and IoT, New Product Development and Haptics and Immersive Technologies are added in the verticals
Credit points on Training for Competitive exams to be verified.	The credit for 24TP707- General Studies for Competitive Exams has been changed to 1	All the Employability Enhancement Courses are allotted with 1 credit

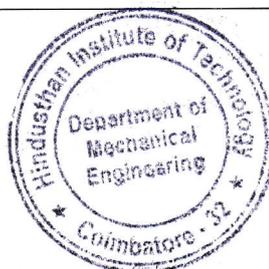


Dr. D.Robinson Smart, Professor, Karunya Institute of Technology and Sciences

Suggestions	Action Taken	Justifications
The course 24ME405 IoT for fluid power systems may be changed as IoT for automation	The objective of including this course is to explore various design and analysis parts of hydraulics and pneumatics. As the contents are IoT and fluidics, the title is kept as IoT for fluid power systems	The automation topics are separately governed in the vertical Robotics and Automation
22ME534- Failure Analysis and NDT Techniques and 22ME540 Non Destructive Testing courses coming under the vertical Process Equipment and Piping Design are having few common topics. They may be changed	The suggestion has been taken for consideration. The course name and contents have been changed as Failure Analysis and Design	As we have a course on Non Destructive Testing. The design concepts towards failure analysis have been added in the set of courses in the same vertical

Er.Manikandan Pandian, Managing Director, M/s. Ankusam Engineering

Suggestions	Action Taken	Justifications
Separate course on Intellectual Property Rights may be provided	A course titled 24ED101- Entrepreneurship, IPR and Startups has been added in VII Semester.	Separate courses may increase number of credits, so combination of Entrepreneurship, IPR and Startups has been added
Energy and environmental audit procedures may be included	Courses like Energy Conservation in Industries, Energy Saving Machinery and Components and Environment Sustainability and Impact Assessment are included in the verticals	The students who are willing to take up Energy Auditor, Energy Manager certification examination can opt as Professional Elective courses



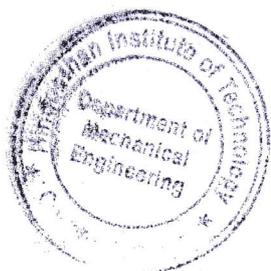
Dr. P S Sivasakthivel, Senior Associate Professor, SASTRA Deemed University

Suggestions	Action Taken	Justifications
In Engineering Graphics Course, the contents may be reduced and Drafting using open softwares may be included as practice using computers	It is proposed to keep Manual drawing practice in Engineering Graphics. How ever demonstration on computer aided drafting will be included in the syllabus.	A practical course titled 24ME401- Computer Aided Drafting and Modeling Laboratory has been included in the II Semester
24ME422 - Mechatronics course may be modified as Practical integrated Theory Course	The suggestion is well taken and modified as 24ME422 - Mechatronics systems and analysis	The practical integrated theory course on Mechatronics systems and analysis will be highly helpful for the mechanical engineering students to take up interdisciplinary projects in automation
Courses on Engineering optimization or resource Management can be included	Engineering optimization courses can be chosen as open electives provided by other departments	It is observed that cery few students who are willing to take up Post graduation in MBA are willing to take up these courses
24ME401-Computer Aided Drafting and Modeling Laboratory :Drafting of 2-D models may be removed.	The suggestion has been discussed with BoS members and decided to remove topic on Drafting of 2-D models	2-D Model drafting is being included in the demonstration part of Engineering Graphics.



Prof. A. Joseph Arokiam, Associate Professor, Arasu Engineering College

Suggestions	Action Taken	Justifications
Courses on Industry 4.0 can be included	The suggestions are being considered and courses have been included in the verticals	Courses like Courses on Additive manufacturing, Digital Manufacturing and IoT, New Product Development and Haptics and Immersive Technologies are added in both core courses as well as in professional elective courses
24ME401 - Computer Aided Drafting and Modeling Laboratory :course outcomes may be revised and reduced to 5	The suggestion is taken in to consideration and discussed with other BoS members.Cos were made in to 5 numbers	For effective mapping of Cos with POs and PSOs the number of Cos were made to 5



S.R. Rajabalan

Dr.S.R.Rajabalan ,
Professor & Head, Department of Mechanical Engineering,
Hindusthan Institute of Technology

Dr.S.R. RAJABALAYANAN
Professor & Head
Department of Mechanical Engineering
Hindusthan Institute of Technology
Coimbatore - 641 032.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

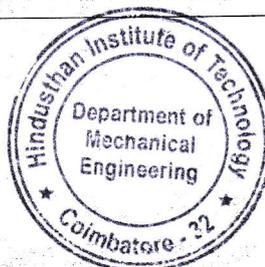
Seventh Meeting of BOS Members

Attendance Sheet



Name of The Programme /Board	B.E.Mechanical Engineering
Date and Time of Meeting	12.03.2024/11.00 a.m.
Venue	Board Room ,Hindusthan Institute of Technology

S.No	Name and Address of Members	Signature
1.	Dr.C.Natarajan Principal Hindusthan Institute of Technology	
2.	Dr.S.R.Rajabalayanan , Professor & Head, Department of Mechanical Engineering, Hindusthan Institute of Technology	
3.	Dr.G.Suresh Kannan , Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore 641014	 12/03/2024
4.	Dr. D.Robinson Smart , Professor, Department of Mechanical Engineering, Karunya Institute of Technology and Sciences,(Deemed to be University), Karunya Nagar,Coimbatore - 641 114	online mode
5.	Er.Manikandan Pandian , Managing Director M/s.Ankusam Engineering, 1/439, Near Indian bank, Chinniyampalayam post, Avinashi road, Coimbatore – 641062.	online mode
6.	Dr. P S Sivasakthivel Senior Associate Professor, School of Mechanical Engineering, SASTRA Deemed University , Thanjavur-613401	online mode
7.	A. Joseph Arokiam ,Associate Professor, Department of Mechanical Engineering Arasu Engineering College Kumbagonam– 612 501.	online mode





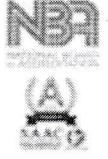
HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

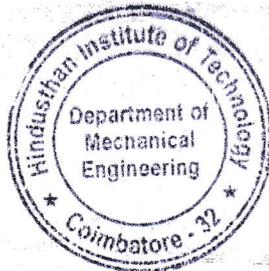
Seventh Meeting of BOS Members

Attendance Sheet



Name of The Programme /Board	B.E.Mechanical Engineering
Date and Time of Meeting	12.03.2024/11.00 a.m.
Venue	Board Room ,Hindusthan Institute of Technology

S.No	Name and Address of Members	Signature
8.	Dr.T.S.Praveen,Associate Professor/MECH	T.S. Praveen
9.	Mr.R.Selvendran, Associate Professor/MECH	R. Selvendran
10.	Mr.M.Viswanath, Associate Professor/MECH	M. Viswanath
11.	Mr.S.Mathivanan, Assistant Professor/MECH	S. Mathivanan
12.	Mr.N.Dinesh, Assistant Professor/MECH	N. Dinesh
13.	Mr.J.Dixon Jim Joseph, Assistant Professor/MECH	J. Dixon
14.	Mr.S.Suresh, Assistant Professor/MECH	S. Suresh
15.	Mr.S.Sivasubramanian, Assistant Professor/MECH	S. Sivasubramanian
16.	Mr.Ganesh Kumar.K.V Assistant Professor/MECH	G. Ganesh Kumar
17.	Mr.A.Jeevarathinam, Assistant Professor/MECH	A. Jeevarathinam
18.	Mr.S.Udhayakumar, Assistant Professor/MECH	S. Udhayakumar



Dr. S.R. Rajabalan
12/3/2024

Dr.S.R. RAJABALAYANAN
Professor & Head
Department of Mechanical Engineering
Hindusthan Institute of Technology
Coimbatore - 641 032.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

Sixth Meeting of BOS Members



Minutes of the meeting

The Sixth meeting of Board of Studies-Mechanical Engineering Board has been conducted on 13th September 2023 at 11.00 am in Board Room.

The following members were present

1.	Dr.C.Natarajan
2.	Dr.S.R.Rajabalayanan
3.	Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology
4.	Dr. D.Robinson Smart, Professor, Karunya Institute of Technology and Sciences (<i>On line mode</i>)
5.	Er.Manikandan Pandian, Managing Director, M/s.Ankusam Engineering (<i>On line mode</i>)
6.	Dr. P S Sivasakthivel, Senior Associate Professor, SASTRA Deemed University(<i>On line mode</i>)
7.	A. Joseph Arokiam, Associate Professor, Arasu Engineering College (<i>On line mode</i>)
8.	Dr.T.S.Praveen, Associate Professor/MECH
9.	Mr.R.Selvendran, Associate Professor/MECH
10.	Mr.M.Viswanath, Associate Professor/MECH
11.	Mr.S.Mathivanan, Assistant Professor/MECH
12.	Mr.N.Dinesh, Assistant Professor/MECH
13.	Mr.J.Dixon Jim Joseph, Assistant Professor/MECH
14.	Mr.S.Suresh, Assistant Professor/MECH
15.	Mr.S.Sivasubramanian, Assistant Professor/MECH
16.	Mr.Ganesh Kumar.K.V Assistant Professor/MECH
17.	Mr.A.Jeevarathinam, Assistant Professor/MECH
18.	Mr.S.Udhayakumar, Assistant Professor/MECH



The following points have been discussed

The meeting started with welcome address by Dr.S.R.Rajabalayanan. Dr.C.Natarajan provided opening remarks and objectives of fourth BoS meeting

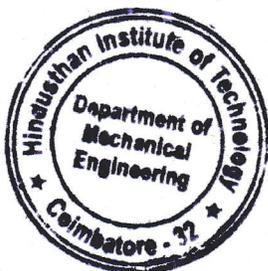
Dr.S.R.Rajabalayanan presented the curricula for Regulations 2022 and syllabi for V&VI Semester to the members. Courses coming under under the following categories have been presented and were approved by the Committee

- Professional Core Course – PC
- Professional Elective Course – PE
- Open Elective Course – OE
- Basic Science Course – BS
- Engineering Science Course – ES
- Employment Enhancement Course – EEC
- Mandatory Course – MC
- Humanities & Science Course – HS
- Value Added Course – VAC
- NCC Certification courses-NC

The curricula for Regulations 2022 for both 2021 & 2022 admitted batches has been modified and presented

- 1.Total credit assigned for R 2022 curriculum(168) is greater than the total credit offered by Anna University for Mechanical department of Non Autonomous Affiliated institutions. (167)
- 2.The inclusion of mandatory one credit Tamil courses as mentioned below.

Name of the Course	2022 admitted batch	From 2023 admitted onwards
Heritage of Tamils	II	I
Tamils and Technology	III	II



3. Number of contact hours for the following Theory integrated Practical Courses have been modified as per the given details

22ME406	Computer Aided Design and Manufacturing	PC	50	50	100	3	2	0	0	4
22ME419	Computer Aided Engineering Analysis	PC	50	50	100	3	2	0	0	4

4. Procedure for Internal Assessment (Theory Courses with Laboratory Component / Laboratory Courses with Theory Component)

S.No	L	T	P	C	Internal Assessment		End Semester Examination
					Assessment I	Assessment II	
1.	3	0	2	4	Theory 25 %	Laboratory 25 %	Theory 35 % Laboratory 15 %

4.1 Procedure for Internal Assessment (Theory)

Description	Marks
Continuous Internal Assessment I	
Written Test	60
Individual Assignment /Case Study /Seminar / Mini Project/any other experiential Learning	40
Total	100

4.2 Procedure for Internal Assessment (Practical)

Internal Assessment (100 Marks)		
Evaluation of Laboratory Observation, Record	Test	Total
75	25	100



4.3. Procedure for conduct of Assessment for TPC Courses

Type of Test		No. of Theory test to be conducted	Syllabus Coverage
CIA I	Evaluation of Laboratory Observation, Record		
		During CIA I and CIA II period	

5. 22 EN103-Design Thinking course has been moved to fourth semester

6. List of New courses introduced during sixth board of studies meeting

MODERN MOBILITY SYSTEMS	PRODUCT AND PROCESS DEVELOPMENT	ROBOTICS AND AUTOMATION
Automotive Materials, Components Design & Testing	Value Engineering	Sensors and Instrumentation
Conventional and Futuristic Vehicle Technology	Quality Control and Reliability Engineering	Electrical Drives and Actuators
Renewable Powered Off Highway Vehicles and Emission Control Technology	Design For X	Embedded systems and Programming
Vehicle Health Monitoring, Maintenance and Safety	Ergonomics in Design	Smart Mobility and Intelligent Vehicles
CAE and CFD Approach in Future Mobility	New Product Development	Haptics and Immersive Technologies
Hybrid and Electric Vehicle Technology	Product Life Cycle Management	Drone Technologies
Thermal Management of Batteries and Fuel Cells		Machine Learning for Intelligent Systems



7. List of Additional Courses to be studied and to be exempted in respect of students admitted in R 2020 to R 2022

Rejoining Semester	Additional Subjects		Exempted Subjects	
IV	22ME409	Thermal Engineering	22MC804	Essence of Indian Traditional Knowledge
V	22RM101	Research Methodology		
	22ME413	Dynamics of Machinery		
	22TP705	Programming Aspects & Technical Aptitude – I		
VII	22ED101	Entrepreneurship, IPR and Startups		

8. Suggestions given by Experts

8.1 **Dr.G.Suresh Kannan**, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology has suggested the following points

1. 22ME413 – Dynamics of Machinery Unit – 1 Topic may be renamed as Force Analysis and Flywheel.
2. 22ME420- Thermal Engineering laboratory Heat transfer equipments have to be added.
3. Instructions about usage of Design data book, Steam tables, HMT data books are also to be included in the syllabus.

8.2 **Dr. D.Robinson Smart**, Professor, Karunya Institute of Technology and Sciences has suggested the following points

1. Tutorial periods for 22ME412- Design of Machine Elements may be added as the course involves design procedure
2. 22ME414-Metrology and Measurements-The course outcomes may be limited to five, so that the mapping process will be efficient



8.3 **Er.Manikandan Pandian**, Managing Director, M/s.Ankusam Engineering has suggested the following points

1.22ME501 Automotive Materials, Components, Design & Testing-Course contents in Unit I can be reduced, as it involves more number of contact periods

8.4 **Dr. P S Sivasakthivel**, Senior Associate Professor, SASTRA Deemed University has suggested the following points

1. The contact hours for Computer Aided Design and Manufacturing course may be reduced to 60 hours
2. A theory course on Introduction to Digital Manufacturing may be included in Professional Electives
3. 22ME416- Metrology Laboratory course outcomes may be limited to five

8.5 **Prof. A. Joseph Arokiam**, Associate Professor, Arasu Engineering College has suggested the following points

1. The contents on Economic viability of Electric vehicle technology may be included

The meeting ended with concluding remarks by Dr.S.R.Rajabalayanan, Chairman of Board of Studies, Mechanical Engineering.





HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

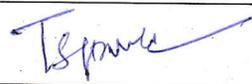
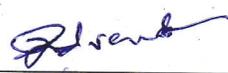
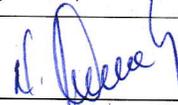
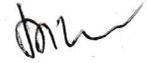
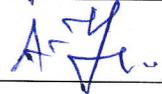
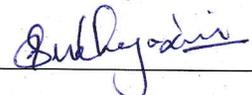
Sixth Meeting of BOS Members

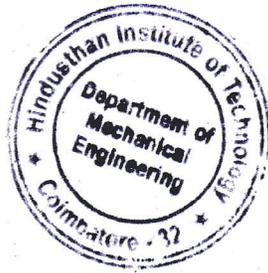


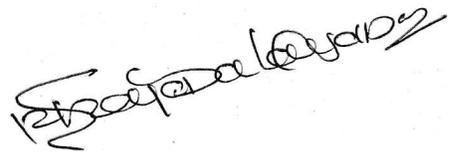
Minutes of the meeting

S. No.	Members	Name, Designation and Address	Signature
1.	Head of the Department (Chairman)	Dr.S.R.Rajabalayanan , Professor & Head, Department of Mechanical Engineering, Hindusthan Institute of Technology	 13/09
2.	Subject Experts from outside the Parent University	Dr. P S Sivasakthivel , Senior Associate Professor, School of Mechanical Engineering, SASTRA Deemed University , Thanjavur-613401	Online mode/ Acknowledgement enclosed
3.		Dr. D.Robinson Smart , Professor, Department of Mechanical Engineering, Karunya Institute of Technology and Sciences,(Deemed to be University), Karunya Nagar,Coimbatore - 641 114	Online mode/ Acknowledgement enclosed
4.	Anna University Nominee	Dr.G.Suresh Kannan , Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology,Coimbatore-641014	 13/09/2023
5.	Representative from Industry	Er.Manikandan Pandian , Managing Director,M/s.Ankusam Engineering, 1/439, Chinniyampalayam post, Coimbatore – 641062.	Online mode/ Acknowledgement enclosed
6.	Post Graduate Meritorious Alumni	A. Joseph Arokiam , Associate Professor, Department of Mechanical Engineering Arasu Engineering College, Kumbagonam– 612 501.	Online mode/ Acknowledgement enclosed



		Signature
7.	Dr.T.S.Praveen, Associate Professor/MECH	
8.	Mr.R.Selvendran, Associate Professor/MECH	
9.	Mr.M.Viswanath, Associate Professor/MECH	
10.	Mr.S.Mathivanan, Assistant Professor/MECH	
11	Mr.N.Dinesh, Assistant Professor/MECH	
.12.	Mr.J.Dixon Jim Joseph, Assistant Professor/MECH	
13.	Mr.S.Suresh, Assistant Professor/MECH	
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15.	Mr.K.V.Ganesh Kumar. Assistant Professor/MECH	
16.	Mr.A.Jeevarathinam, Assistant Professor/MECH	
17.	Mr.S.Udhayakumar, Assistant Professor/MECH	





Dr.S.R.RAJABALAYANAN

Dr.S.R. RAJABALAYANAN
 Professor & Head
 Department of Mechanical Engineering
 Hindusthan Institute of Technology
 Coimbatore - 641 032.



HINDUSTHAN INSTITUTE OF TECHNOLOGY
COIMBATORE-32
Department of Mechanical Engineering



Acknowledgement –Minutes of Meeting -Sixth BoS Meeting

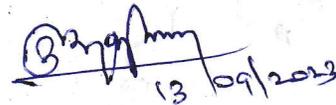
Name of The Programme /Board :B.E.Mechanical Engineering

Date and Time of Meeting : 13.09.2023 /11.00 a.m..

Anna University Nominee **Dr.G.Suresh Kannan,**
Associate Professor,
Department of Mechanical Engineering,
Coimbatore Institute of Technology, Coimbatore 641014

I am happy that I have participated in Board of Studies meeting. The following suggestions were made during discussion and recorded in the minutes of meeting.

1. 22ME413 – DYNAMICS OF MACHINERY Unit – 1 Topic may be renamed as Force Analysis and Flywheel.
2. 22ME420- Thermal Engineering laboratory Heat transfer equipments have to be added.
3. Instructions about usage of Design data book, Steam tables, HMT data books are also to be included in the syllabus.


13/09/2023

Dr.G.Suresh Kannan,
Associate Professor,
Department of Mechanical Engineering,
Coimbatore Institute of Technology,
Coimbatore 641014



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering



Acknowledgement –Minutes of Meeting – sixth BoS Meeting

Name of The Programme /Board :B.E.Mechanical Engineering

Date and Time of Meeting : 13.09.2023 /11.00 a.m...

Subject Expert 2 outside Anna
University

Dr. D.Robinson Smart, Professor,
Department of Mechanical Engineering,
Karunya Institute of Technology and Sciences,(Deemed to be University),
Karunya Nagar,Coimbatore - 641 114

I am happy that I have participated in Board of Studies meeting through online mode. The following suggestions were made during discussion and recorded in the minutes of meeting.

1. Tutorial periods for 22ME412- Design of Machine Elements may be added as the course involves design procedure
2. 22ME414-Metrology and Measurements-The course outcomes may be limited to five, so that the mapping process will be efficient.

Dr. D.Robinson Smart, Professor,
Department of Mechanical Engineering,
Karunya Institute of Technology and
Sciences,(Deemed to be University),
Karunya Nagar,Coimbatore - 641 114



HINDUSTHAN INSTITUTE OF TECHNOLOGY
COIMBATORE-32
Department of Mechanical Engineering



Acknowledgement –Minutes of Meeting /Sixth BoS Meeting

Name of The Programme /Board :B.E.Mechanical Engineering

Date and Time of Meeting : 13.09.2023 /11.00 a.m.

Dr. P S Sivasakthivel,
Senior Associate Professor,
School of Mechanical Engineering,
SASTRA Deemed University ,
Thanjavur-613401

I am happy that I have participated in Board of Studies meeting through online mode. The following suggestions were made during discussion and recorded in the minutes of meeting.

1. The contact hours for Computer Aided Design and Manufacturing course may be reduced to 60 hours
2. A theory course on Introduction to Digital Manufacturing may be included in Professional Electives
3. 22ME416- Metrology Laboratory course outcomes may be limited to five

Sivasakthivel

Dr. P S Sivasakthivel,
Senior Associate Professor,
School of Mechanical Engineering,
SASTRA Deemed University,
Thanjavur-613401



HINDUSTHAN INSTITUTE OF TECHNOLOGY
COIMBATORE-32
Department of Mechanical Engineering



Acknowledgement –Minutes of Meeting – Sixth BoS Meeting

Name of The Programme /Board :B.E.Mechanical Engineering

Date and Time of Meeting : 13.09.2023 /11.00 a.m.

Member-Industry Expert **Er.Manikandan Pandian,**
Managing Director, M/s.Ankusam Engineering,
1/439, Chinniyampalayam post,
Coimbatore – 641062.

I am happy that I have participated in Board of Studies meeting through online mode. The following suggestions were made during discussion and recorded in the minutes of meeting.

1.22ME501 Automotive Materials, Components, Design & Testing-Course contents in Unit I can be reduced, as it involves more number of contact periods

Er.Manikandan Pandian,
Managing Director, M/s.Ankusam Engineering,
1/439, Chinniyampalayam post,
Coimbatore – 641062.



HINDUSTHAN INSTITUTE OF TECHNOLOGY
COIMBATORE-32
Department of Mechanical Engineering



Acknowledgement –Minutes of Meeting –Sixth BoS Meeting

Name of The Programme /Board :B.E.Mechanical Engineering

Date and Time of Meeting : 13.09.2023 /11.00 a.m.

A. Joseph Arokiam,
Associate Professor,

Post Graduate Meritorious Alumni Department of Mechanical Engineering
Arasu Engineering College,
Kumbagonam– 612 501.

I am happy that I have participated in Board of Studies meeting through online mode. The following suggestions were made during discussion and recorded in the minutes of meeting.

1. The contents on Economic viability of Electric vehicle technology may be included

A. Joseph Arokiam,
Associate Professor,
Department of Mechanical Engineering
Arasu Engineering College,
Kumbagonam– 612 501.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

COIMBATORE-32

Department of Mechanical Engineering

Sixth Meeting of BOS Members



Action Taken Report

The sixth meeting of Board of Studies-Mechanical Engineering Board has been conducted on 13th September 2023 at 11.00 am in Board Room. Expert members provided their valuable suggestions. The following are the details of action taken in response to the suggestions and discussion carried out during the meeting.

Dr.G.Suresh Kannan, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology

Suggestions	Action Taken	Justifications
22ME413 – Dynamics of Machinery Unit – 1 Topic may be renamed as Force Analysis and Flywheel	The suggestion has been taken for consideration and modified	Force Analysis on machine components are to be introduced in the first unit
22ME420- Thermal Engineering laboratory Heat transfer equipments have to be added.	Heat Transfer experiments have been added	IC Engines and Heat transfer contents have been added as the course covers thermal engineering practices
Instructions about usage of Design data book, Steam tables, HMT data books are also to be included in the syllabus	The Instructions have been included in the syllabus of analytical courses	The instructions are needed for providing the nature of course to the question paper setters

Dr. D.Robinson Smart, Professor, Karunya Institute of Technology and Sciences

Suggestions	Action Taken	Justifications
Tutorial periods for 22ME412- Design of Machine Elements may be added as the course involves design procedure	Tutorial practices are included in the capstone assessment components	Total number of contact periods is 45. It is explained that addition of tutorial classes will increase the credit points. However the tutorials are included in the capstone assessment components



22ME414-Metrology and Measurements-The course outcomes may be limited to five, so that the mapping process will be efficient	The suggestion has been taken for consideration and modified	It is justified to have five COs,so that the mapping process will be efficient
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Er.Manikandan Pandian, Managing Director,M/s.Ankusam Engineering

Suggestions	Action Taken	Justifications
22ME501 Automotive Materials, Components, Design & Testing-Course contents in Unit I can be reduced, as it involves more number of contact periods	The suggestion is being considered and contents in Unit -I have been reduced	The removed contents are to be given as assignment questions during the internal assessment

Dr. P S Sivasakthivel, Senior Associate Professor, SASTRA Deemed University

Suggestions	Action Taken	Justifications
The contact hours for Computer Aided Design and Manufacturing course may be reduced to 60 hours	The number of contact hours has been kept as 75 periods	It is explained that Computer Aided Design and Manufacturing is 4 credit course, which contains three units of theory part and two units of practice part. Syllabus coverage needs additional contact periods, so it is kept as 75
A theory course on Introduction to Digital Manufacturing may be included in Professional Electives	A course on Digital manufacturing is included in vertical 5.It will be selected as one of the professional electives	The specified course contents are available in the vertical 5:Green and Digital manicuring, which will be offered during 7th Semester
22ME416- Metrology Laboratory course outcomes may be limited to five	The suggestion has been discussed with BoS members and decided to keep five course outcomes	It is justified to have five COs,so that the mapping process will be efficient



Prof. A. Joseph Arokiam, Associate Professor, Arasu Engineering College

Suggestions	Action Taken	Justifications
The contents on Economic viability of Electric vehicle technology may be included	The suggestion has not been taken for consideration and Member has been convinced by showing the contents in other core courses	Economic viability analysis contents are available in other core courses like Engineering Economics and product design and development



A handwritten signature in black ink, appearing to read "Dr. S.R. Rajabalayanan".

Dr.S.R.Rajabalayanan ,
Professor & Head, Department of Mechanical Engineering,
Hindusthan Institute of Technology

Dr.S.R. RAJABALAYANAN
Professor & Head
Department of Mechanical Engineering
Hindusthan Institute of Technology
Coimbatore - 641 032.