



**Department of Mechanical Engineering**

**FXEC/IQAC/Mech/BOS/24-25/ODD/Cir/Dec-01**

**Date: 21.12.2024**

**Circular**

The 12<sup>th</sup> Board of Studies Meeting is scheduled on 23.12.2024 (Monday) at 11.00am in Presentation Hall. All the members are cordially invited to attend the meeting.

**AGENDA**

- **Item 24.BOS/12.1:** Dissemination of Vision, Mission, PSO and PEO
- **Item 24.BOS/12.2:** To confirm the action taken report of the previous BOS held on 10.06.2024
- **Item 24.BOS/12.3:** III & IV Sem Syllabus R24 for approval
- **Item 24.BOS/12.4:** Open Elective I & II Syllabus R 24 discussion and approval
- **Item 24.BOS/12.5:** NPTEL list of courses for approval (Even Sem AY 24-25)
- **Item 24.BOS/12.6:** SVAC Syllabus R24 for approval
- **Item 24.BOS/12.7:** Minor degree courses R24 for approval
- **Item 24.BOS/12.8:** Any other Points for discussion – Ratification in Program Outcomes

  
21/12/24  
**Programme Coordinator**

  
21/12/24  
**Head of the Department**

To:

All BOS Members

Copy to:

The Principal

The IQAC Director

All M-Team Members

The File

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## Department of Mechanical Engineering

FXEC/IQAC/Mech./BOS/24-25/ODD/MoM/December-01 Date: 23.12.2024

### Minutes of Board of Studies Meeting

Date & Time: 23.12.2024 11.00 AM

Venue: Presentation Hall

The 12<sup>th</sup> Board of Studies meeting of Department of Mechanical Engineering was conducted on 23.12.2024 at 11.00 a.m.

#### Members of BOS:

Sl. No	Name	Designation	Position in BOS
1	Dr. R. Samuel Hansen	Head of the Department	Chair Person
2	Dr.A. Krishnaveni	University nominee	Member
3	Dr. V. Senthil Kumar	Academic Peers -Outside the parent University nominee	Member
4	Dr.R. Sudhakar Pandian	Academic Peers - Outside the parent University nominee	Member
5	Mr. R. Srinivasa Raghavan	Industrial experts	Member
6	Mr.S.Valai Ganesh	Alumni	Member
7	Dr.V.Velmurugan	Professor and Principal	Member
8	Dr.M.Kannan	Professor	Member
9	Dr.SM Rajkumar	Associate Professor	Member



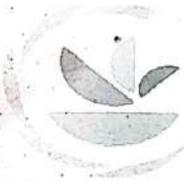
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## Department of Mechanical Engineering

10	Dr.K.Ariyanayagam	Associate Professor	Member
11	Dr.K.RobinstonJeyasinghSwikker	Associate Professor	Member
12	Dr.K.Vinukumar	Assistant Professor	Member
13	Dr.S.Sheikh Sulaiman	Assistant Professor	Member
14	Mr.S.Thanumalaya Perumal	Assistant Professor	Member
15	Mr. J.Jeremy Jeba Samuel	Assistant Professor	Member
16	Mr.R.Rahesh	Assistant Professor	Member
17	Mr.S.Rakesh	Assistant Professor	Member
18	Mr.SM.Suder Rajan	Assistant Professor	Member
19	Mr.S.DavidBlessley	Assistant Professor	Member



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## Department of Mechanical Engineering

### Agenda:

**Item 24.BOS/12.1:** Dissemination of Vision, Mission, PSO and PEO

**Item 24.BOS/12.2:** To confirm the action taken report of the previous BOS held on 10.06.2024

**Item 24.BOS/12.3:** III & IV Sem Syllabus R24 for approval

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**Item 24.BOS/12.7:** Minor degree courses R24 for approval

**Item 24.BOS/12.8:** Any other Points for discussion – Ratification in Program Outcomes

### Opening Protocol:

The 12<sup>th</sup>BOS started with the prayer by Dr.RobinstonJeyasinghSwikker, Associate Professor/Mechanical Engineering.

Dr.J.Sangili Muthukumar, AP/Mech welcomed the members of the BOS.

Dr.K.Ariyanayagam ASP/Mech briefed the agenda of the meeting and the deliberations of 12<sup>th</sup>BOS.





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## Department of Mechanical Engineering

**Item 24.BOS/12.2:** To confirm the Action taken report of the previous BOS held on 10.06.2024

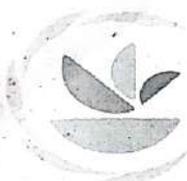
Item 24.BOS/12.2 - Points discussed for action taken during previous BOS held on 10.06.2024	Action Taken	Remarks
<p>Dr. R. Sudhakarpanthian suggested to change the title for the course in fifth semester to CIM for Automation</p> <p>Dr.A.Krishnaveni suggested to convert the Finite Element Analysis course to Theory cum Practical</p>	<p>Given suggestions were put up in academic council meeting and changes will be made during the Syllabus framing of semester 5 &amp; 6</p>	
<p>Dr.A.Krishnaveni suggested to add open elective in the second and Third semester for PG course.</p>	<p>Given suggestions were put up in academic council meeting and changes have been made as per the recommendations.</p>	
<p>Dr.A.Krishnaveni suggested to add the Perspective Projection topic in Unit-IV for Engineering Graphics and also convert to 4 credit course to give more practical hours and swap the Intersectional solids unit after Section of Solids unit.</p>	<p>Changes have been made as per the recommendations.</p>	

**Department of Mechanical Engineering**

Mr.S.Valai Ganesh insisted that to give an Inter-Disciplinary project based on the Industrial Automation courses in 5th, 6th & 7th Semester instead of Conventional Design and Fabrication Project.	Given suggestions were put up in academic council meeting and changes will be made during the Syllabus framing of semester 5, 6 & 7.	
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Points discussed in the 12<sup>th</sup> BOS meeting held on 23.12.2024

Points for Discussion and Approval	Action Planned	Responsibility Assigned	Target Date
Item 24.BOS/12.3	Dr.Krishnaveni mam suggested to change the title of the Vth unit in Engineering Thermodynamics as the topics availability, irreversibility were included	Dr.J.Sangili Muthukumar AP/Mech	05.01.2025
	Dr.V.Senthil Kumar sirsuggested to revamp the 5th unit as the syllabus looks vast in the course Manufacturing Technology. He recommended to remove the topics NC Machine tools and CNC Latheand include in the course CAD/CAM/CIM for automation in 5 <sup>th</sup> Semester	Mr.S.M.Sunderrajan n AP/Mech	05.01.2025



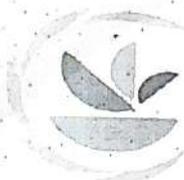
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	Mr.S.Valai Ganesh sir suggested to reframe the title of Unit 3 in Fluid Mechanics and Machinery as hydraulic circuits have been included.	Dr.K.Ariyanayaga m ASP/Mech	05.01.2025
	Dr.Senthil Kumar sir suggested to add the topic Introduction to Tensors in Unit II after Principal Planes and Stresses in the course Strength of Materials	Mr.S.Thanumalaya perumal AP/Mech	05.01.2025
	Dr. Senthil Kumar sir suggested to add Types of Standards for the course Metrology and Instrumentations.	Mr.J.Jeremy Jeba Samuel AP/Mech	05.01.2025
	Dr.Suthakara Pandian sir recommended to add the topic multi degrees of freedom in unit IV in the course Theory of Machines,	Dr.K.Robinston ASP/Mech	05.01.2025
	Dr.S.Valai Ganesh suggested to revamp the topic Epicyclic gear train as Gear train and its types in II unit of the course Theory of Machines	Dr.K.Robinston ASP/Mech	05.01.2025



**Department of Mechanical Engineering**

Item24.BOS/12 .4	Dr.Krishnaveni mam suggested that, In Open Elective - 2, For the course Energy Engineering and Management, Unit V, The course outcome may include Energy auditing as key indicator.	Mr.S.Rakesh AP/Mech	05.01.2025
	Mr.S.Valai Ganesh sir suggested that, In the course, Principles of Mechanical System Automation, Unit IV, Single Board Microcontroller (Rasperry pi) and Single board computer (Arduino) topics can be added	Dr.M.Kannan Prof/Mech	05.01.2025
	Dr.Sudhakarapandian sir suggested to include work study can be included in Engineering Economics and Cost analysis Open elective.	Dr.K.Ariyanayaga m ASP/Mech	05.01.2025
	Dr.Sudhakarapandian suggested to add Battery Materials in any of the open electives as it may not be offered by other departments	Mr.S.DavidBlessle y AP/Mech	05.01.2025



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<b>Item</b> 24.BOS/12.5	Dr.Krishna Veni mam suggested to add course equivalent subjects for NPTEL courses while opting for credit transfer.	Mr.S.DavidBlessley AP/Mech	05.01.2025
<b>Item</b> 24.BOS/12.6	Dr.R.Samuel Hansen presented the list of courses and course contents for Skill Based Value Added courses (SVAC)	The BoS members approved the contents in Skill Based Value Added Courses	05.01.2025
<b>Item</b> 24.BOS/12.7	Dr.R.Samuel Hansen presented the Additive Manufacturing minor degree courses for R24 Regulation	The BoS members approved the Minor Courses for R24 Curriculum	05.01.2025
<b>Item</b> 24.BOS/12.8	Ratification in Program Outcomes. (11 POs as specified by NBA)	The BoS members approved the Program outcomes as per NBA new norms.	05.01.2025

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The meeting came to a close with a vote of thanks by Mr. S.Thanumalayaperumal, AP/Mech.

Prepared By

Dr.S.M.Rajkumar&Mr. S.DavidBlessley,

Approved By

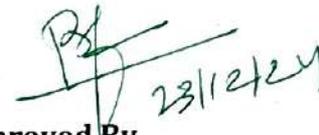
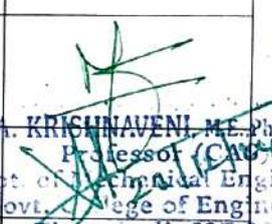
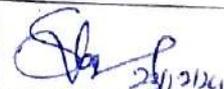
Dr.R.Samuel Hansen

Board Chairman

Dept. of MechanicalEngg.,

Francis Xavier Engineering College

### Members Present:

Sl. No	Name	Designation	Position in BOS	Signature
1	Dr. R. Samuel Hansen	Head of the Department	Chair Person	
2	Dr.A. Krishnaveni	University nominee	Member	 Dr. A. KRISHNAVENI, M.E., Ph.D., MISTE. Professor (CAG) Dept. of Mechanical Engineering Govt. College of Engineering Tirunelveli-627 007.
3	Dr. V. Senthil Kumar	Academic Peers - Outside the parent University nominee	Member	
4	Dr.R. Sudhakarpandian	Academic Peers - Outside the parent University nominee	Member	
5	Mr. R. Srinivasa Raghavan	Industrial experts	Member	
6	Mr.S.Valai Ganesh	Alumni	Member	



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7	Dr.V.Velmurugan	Professor and Principal	Member	
8	Dr.M.Kannan	Professor	Member	
9	Dr.SM Rajkumar	Associate Professor	Member	
10	Dr.K.Ariyanayagam	Associate Professor	Member	
11	Dr.K.RobinstonJeyasinghS wikker	Associate Professor	Member	
12	Dr.K.Vinukumar	Assistant Professor	Member	
13	Dr.S.Sheikh Sulaiman	Assistant Professor	Member	
14	Mr.S.Thanumalaya Perumal	Assistant Professor	Member	
15	Mr. J.Jeremy Jeba Samuel	Assistant Professor	Member	
16	Mr.R.Rahesh	Assistant Professor	Member	
17	Mr.S.Rakesh	Assistant Professor	Member	
18	Mr.SM.Suder Rajan	Assistant Professor	Member	
19	Mr.S.DavidBlessley	Assistant Professor	Member	



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### Members attended Online

Sl. No	Name	Designation	Position in BOS	Signature
1	Dr. V. Senthil Kumar	Academic Peers - Outside the parent University nominee	Member	
2	Dr. R. Sudhakar Pandian	Academic Peers - Outside the parent University nominee	Member	

### Members Absent:

Sl. No	Name	Designation	Position in BOS
1.	Mr.R.Srinivasa Raghavan	AVP Manufacturing Alliance Tire Group	Expert member from Industry