



**MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

THIRUVANANTHAPURAM-695015

DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF MEETING (DRAFT) OF THE BOARD OF STUDIES HELD IN
SENATUS HALL ON 08.04.2024 (MONDAY) AT 03:00 PM

Members present:

1	Dr. Remil George Thomas	Chairman
2	Dr. T. Jayachandran (Attended Online)	Member
3	Dr. Sujatha C. (Attended Online)	Member
4	Dr. R. Manu (Attended Online)	Member
5	Dr. A. Sameen (Attended Online)	Member
6	Dr. Praveen Krishna (Attended Online)	Member
7	Dr. Balaji Venkataraman (Attended Online)	Member
8	Dr. S. H. Anilkumar (Attended Online)	Member
9	Mr. Sai Ganesh (Attended Online)	Member
10	Dr. K. Muraleedharan Nair	Member
11	Dr. Nidhi M B	Member
12	Dr. Rajesh T. N.	Member
13	Dr. Pradeep M.	Member
14	Dr. Vinod V.	Member
15	Dr. Premchand V. P.	Member
16	Mr. Ayswer A S	Member
17	Dr. Arvind P.	Member
18	Dr. P S Prasanth	Member
19	Mr. Deepak B	Member
20	Mr. Roshan George Koshy	Member
21	Ms. Ruby Maria Syriac	Member
22	Mr. Ajeesh M. V.	Member
23	Mr. Bobin Saji George	Member
24	Mr. Melvin Jacob	Member
25	Mr. Vaisakh S. Nair	Member
26	Mr. Alen K. Johnson	Member
27	Mr. Abhiram R. Nair	Member
28	Mr. Bipin Sankar	Member
29	Mr. Arun M. G.	Member



30	Ms. Arya A. S.	Member
31	Mr. Deepak B. S.	Member Secretary

Members on leave:

Minutes

Agenda Note Item	Subject
ME:BS 7.01	<ul style="list-style-type: none"> • Welcome Note • Introduction of new members and expression of gratitude to previous members of the BoS • Confirmation of the Minutes of the Sixth Meeting of the Board of Studies held on 12.07.2023
Decision of the body	Board of Studies (BoS) resolved to confirm the minutes of the Sixth Meeting held on 12.07.2023
ME:BS 7.02	Report on the actions taken/actions pending on the pertinent decisions in the Minutes of the Sixth Meeting of the Board of Studies held on 12.07.2023
Decision of the body	BoS reviewed the Action Taken Report of the Sixth Meeting and recommended to proceed accordingly.
ME:BS 7.03	Report on overview of the major activities in the Department after the Sixth meeting of Board of Studies held on 12.07.2023
Gist	The Chairman presented an overview of the noted achievements of the department for the past eight months after the Sixth meeting of Board of Studies held on 12.07.2023
ME:BS 7.04	Considering the second-year draft syllabi of the courses of B. Tech in Mechanical Engineering - 2023 scheme
Decision of the body	<p>BoS approved the proposed second year syllabi for B.Tech in Mechanical Engineering (2023 scheme) with the following suggestions:</p> <ol style="list-style-type: none"> 1. To change the course name "Metallurgy and Material Science" to "Metallurgy and Materials Science" 2. To shift topics including stress concentration factor, cyclic loading and working stress from Metallurgy and Materials Science to Mechanics of Solids, as the syllabi is too exhaustive. 3. To rearrange second and third modules of Mechanics of Fluids so that the differential formulation conservation equations precede topics like stream function, rotational and irrotational flows. It was also proposed to remove topics including notches and weirs. The exposure of the same to the students will be done in Lab course. 4. To introduce Cam and Gear in module 5 in the course Mechanics of Machinery. It was also suggested to add analytical methods in static force analysis of four bar mechanisms. 5. To remove clamping methods from Manufacturing process. The



	<p>same maybe added in Machine Tools and Metrology. It was also proposed to include additive manufacturing in Manufacturing process.</p> <p>6. To remove the topic Boundary layer from Fluid Machinery. Since the concept is very much necessary in the study of convective heat transfer, the content was modified accordingly.</p>
ME:BS 7.05	Considering the proposed baskets for Honours offered by the Department of Mechanical Engineering - 2023 scheme
Decision of the body	BoS has put forward the suggestion to re-draft the current traditional baskets and start innovative baskets. It was decided that the new baskets as per the suggestions will be formulated and circulated among the BoS members for approval.
ME:BS 7.06	Considering the second-year draft syllabi of the Honours courses offered by the Department of Mechanical Engineering – 2023 scheme
Decision of the body	BoS has put forward the suggestion to re-draft the current traditional baskets and start innovative baskets. It was decided that the syllabi for the second-year courses in the new baskets will be formulated and circulated among the BoS members for approval.
ME:BS 7.07	Considering the proposed baskets for Minors offered by the Department of Mechanical Engineering - 2023 scheme
Decision of the body	BoS has put forward the suggestion to re-draft the current traditional baskets and start innovative and interdisciplinary baskets. It was decided that the new baskets as per the suggestions will be formulated and circulated among the BoS members for approval
ME:BS 7.08	Considering the second-year draft syllabi of the Minor courses offered by the Department of Mechanical Engineering – 2023 scheme
Decision of the body	BoS has put forward the suggestion to re-draft the current traditional baskets and start innovative and interdisciplinary baskets that maybe useful for the students. It was decided that the syllabi for the second-year courses in the new baskets as per the suggestions will be formulated and circulated among the BoS members for approval
ME:BS 7.09	Reporting of additional list of examiners for question paper scrutiny and evaluations
Decision of the body	BoS took note of the list of examiners and recommended to proceed accordingly
ME:BS 7.10	Any other matter with the permission of the Chair
Discussions	<p>The chairman presented the second year syllabi for B.Tech in Mechanical Engineering (2023 scheme).The following comments were made.</p> <ol style="list-style-type: none"> 1. To reduce the content of the mathematics courses and make it more specific to the branch of study. 2. The pressure and velocity compounding was proposed to be introduced in Fluid Machinery. 3. The experiment to determine the moment of inertia of flywheel which is currently included in the Material Testing lab was proposed to be shifted to higher semester. 4. To include sensitivity analysis and error analysis in Material



	<p>Testing lab.</p> <p>The chairman presented the proposed baskets for Honours offered by the Department of Mechanical Engineering - 2023 scheme. The following comments were made.</p> <ol style="list-style-type: none"> 1. To introduce a general basket for Honors course. 2. To include Industrial and management courses in Honours basket. 3. To include basket comprising of Machine Learning and AI applied to Mechanical Engineering. <p>The chairman presented the proposed baskets for Minors offered by the Department of Mechanical Engineering - 2023 scheme. The following comments were made.</p> <ol style="list-style-type: none"> 1. To introduce computational courses in Mechanical field. 2. To propose interdisciplinary minor baskets including Electric Vehicles, Robotics, cyber-physical systems etc. 3. To include basket comprising of Machine Learning and AI applied to Mechanical Engineering. <p>Chairman, in his capacity as Head of Department, announced that department would take all the suggestions and endeavor to strive hard to incorporate the above in the successive revisions.</p>
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Chairman proposed the Vote of Thanks.

Meeting adjourned at 04.30 pm with thanks to the Chair.

Sd/-

Member Secretary

Date.08.05.2024

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Approved with permission for circulation among the BoS Members

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CHAIRMAN