Board of Syllabus Committee

Minute of the Meeting

The BOS Committee for the Department of Mechanical Engineering was convened on 10.07.2021 between 11:00 AM & 1:30 PM through the Google Meet platform. The meeting was chaired by the Head of Department, Dr. Suresha. B

The external Members present via the online platform were:

1. Dr. C.V. Venkatesh, Principal, Malnad College of Engineering, Hassan
2. Dr. Shannukha Nagaraju, Professor & Dean (Academics) Department of Mechanical Engineering, Rashtreeya Vidyalaya College of Engineering, Bangalore
3. Dr. Rajesh Ranganathan Professor, Department of Mechanical Engineering Coimbatore Institute of Technology Coimbatore, Tamil Nadu - 641 014
4. Mr. Lakshmikanth .K.S. Technical Manager, Applied Materials, Bengaluru-560066
5. Mr. Shashidhara K J Citizen Data Scientist, TVS Motor Company, Hosur

The meeting was conducted in the presence of the members of the BoS committee, the coordinators of the PG programme and the all the faculty of the department.

The chairman began the meeting with a brief welcome & introduction of the members. He delivered a brief presentation about the academic structure & student activities in the department in the past year.

The course structure for the UG programme in Mechanical Engineering programme was presented. This comprised the curriculum for students appearing for all four years in the 2020-21 academic year.

Dr. C.V. Venkatesh noticed that module 6 in the subject Control Engineering in the seventh semester was exhaustive and hence suggested to reduce the contents in that module. Also he advised to include a separate lab component to conduct programming exercises using MATLAB.

Dr. C.V. Venkatesh and Dr. Rajesh Ranganathan suggested to change the title of the course Advanced Nano science and Technology to Advanced Nano Technology as the subject does not include contents related to science.

Dr. Rajesh Ranganathan suggested to include statistical tools for the subject Advanced operations Management and Analytics. He also suggested to include Product life cycle management in Module 1.
Dr. Rajesh Ranganathan advised to include path orientation and direction of lay in the subject Design for Additive Manufacturing in Module 2 and in Demonstration Experiments (Exp 6). Also he told to add Wohler's report in the reference textbook list.

Mr. Lakshmikanth K.S suggested that the VAL and RAIL programming are outdated and hence can be replaced with Python Programming.

Dr. Rajesh Ranganathan recommended to include Digital to Print (D2P) in the course Digital Manufacturing.

Dr K.R. Prakash presented the M.Tech IAR syllabus to the committee and highlighted the following changes made in the curriculum.

- Finite Element Analysis has been removed from the elective list of 1st semester. Further, the elective course 'Mathematical Approach to Robotic Manipulators' has been moved from 2nd semester to 1st semester.
- A new elective course 'Humanoid Robotics' has been introduced in the 2nd semester instead of 'Mathematical Approach to Robotic Manipulators'.

The committee agreed to the above changes brought in for the M.Tech IAR syllabus.

Dr. Imran Jamadar presented the M.Tech Machine Design syllabus to the committee and highlighted the following changes made in the curriculum.

- Laboratory component has been added in the subjects Finite Element Method and Composite Materials in the 1st semester and Mechanisms design in the 2nd semester.
- The subject Advanced Solid Mechanics has been introduced instead of Theory of Elasticity.
- Engineering Mechanics-Dynamics has been added in the elective list instead of Design for Manufacturing and Assembly (DFMA).

The committee agreed to the above changes brought in for the M.Tech Machine Design curriculum.

External members suggested to include the Aerodynamics course as an elective under the Thermal stream in 7th semester elective list.

Dr. C.V. Venkatesh suggested to offer more electives in UG Programme if subject experts are available in the Department. Dr. Suresha B, HOD, agreed to include the suggestion at the NEP implementation in near future.

External members also agreed to move the elective course 'Microgrid with RE integration' from 6th sem to 7th sem to have the continuity with the course 'power plant engineering' offered during the 6th sem.
External members suggested reducing the number of electives offered in the 6th semester based on the importance of electives.

Regarding the implementation of New Education policy the External members suggested the following points. More Courses related to soft skill development has to be brought in.

At the end of the meeting, Dr. Suresha B, Professor and Head, concluded the meeting by thanking all the external members and faculty members of Department of Mechanical Engineering in conduction of the BOS successfully.

Received 5/8/21

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