

MANJARA CHARITABLE TRUST
RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI
(Permanently Affiliated to University of Mumbai)
DEPARTMENT OF MECHANICAL ENGINEERING
(UG Program - NBA- Accredited; PG in Heat Power and Ph.D. Technology)

Action taken report during Academic Year 2023-24

Department Advisory Board Meeting dated 15th September, 2023

Date: 11/07/2024

Reference:

Minutes of meeting of Department advisory board meeting dated 15th September, 2023

- **Awareness of Vision, Mission and PEOs of the department**

In order to disseminate the Vision, Mission, PEOs and PSOs, posters of Vision, Mission, PEOs and PSOs are displayed at the prominent location in the department such as HoD Cabin, various labs and corridors. Vision, Mission, PEOs and PSOs statements are also disseminated through department annual reports, department magazine, newsletter, academic diary, course file, lab manuals etc.

- **National Education Policy (NEP) 2020**

Department shared the link to generate Academic Bank of Credit (ABC ID) amongst the students which is mandatory requirement of NEP 2020. Majority of SE, TE and BE students have generated their ABC ID.

University of Mumbai implemented the First year syllabus as per New Education Policy 2020 from Academic year 2024-25. Board of Studies of Mechanical Engineering of University of Mumbai is now working on the curriculum scheme of second year, third year and final year which is to be implemented from academic year 2025-26.

Faculty members were encouraged to complete faculty development program on 'Universal Human Values' which is a new course introduced in NEP 2020 for value education.

- **New infrastructure development in the department**

Universal Testing machine automation :

This year, our department got the automation done for existing Universal Testing Machine (UTM). By transitioning from manual to automated operations, we have enhanced both the precision and efficiency of our testing processes. The automated UTM ensures more consistent and accurate results, reduces human error, and speeds up the testing cycle.

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Machinery fault diagnostic experimental setup :

The Machinery Fault Diagnostic Experimental Setup in the Maintenance Engineering Lab was developed by students as part of their major project. Students designed and built the system to monitor and assess equipment performance under various fault conditions, focusing on real-time data collection and fault detection. The project not only provided hands-on experience in developing diagnostic tools but also contributed to enhancing predictive maintenance strategies, ultimately improving machinery reliability and efficiency.

Purchase of Entuple Software :

Purchasing Entuple software is a valuable addition to the department as it enhances the capabilities for advanced engineering simulations and analyses. This software provides powerful tools for Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), and other critical simulations, improving the accuracy and depth of research and design projects.

Renewal of Turnitin plagiarism software :

Turnitin plagiarism software helps ensure academic integrity by detecting and preventing plagiarism in student's work.

- **Industry interaction for Honors/Minors Program**

Department offers Honours in 3D printing and Minors in Artificial Intelligence and Machine Learning (AI & ML). Students in Honours program have completed internships in relevant companies namely Sahas Softech Pvt. Ltd., B&R digital Pvt. Ltd. This will help the students to develop industry ready skills which are relevant to fetch a good job in current scenario.



Dr R. V. Kale

Head, Department of Mechanical Engineering