

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)

Minutes of Department Advisory Board Meeting

Dated 13th September 2022.

Venue: Conference Room

Meeting Date: 13th September, 2022.

Time: 10:00 am to 12:30 pm

The following Department Advisory Board members attended the meeting

- Mr. Subbabhrata Ghoshal
- Mr. Mahendra Kapadia
- Dr. Bhushan Patil

All the faculty members of the department attended the meeting.

Agenda of the meeting: -

- Confirming the minutes of the Department Advisory Board Meet dated 9th August 2021 and action taken report of the same.
- Approval of CO PO Target matrix - R19 C Scheme syllabus
- Discussion on Curriculum gap identified - R19 C Scheme syllabus – Final Year
- Discussion on offering various Honors/Minor degree programs
- Installation of Industry Sponsored Laboratory in the Department.
- Discussion on offering more industry-based Mini/Major Projects to Students.
- Any other discussions with the permission of the chair

Summary of Discussions

The meeting was opened by Dr. R.V. Kale (HOD, Mechanical Department) by extending a warm welcome to Hon.Principal Dr.S.U.Bokade, all the department advisory board (DAB) members, and faculty members of the department. He then requested Dr. S.U.Bokade to give the opening remarks. Principal Dr.S.U.Bokade extended a warm welcome and sincere gratitude to all the DAB members and faculty members present for the meeting. He thanked all the DAB members for their constant suggestions and support in shaping the department.

A discussion on various points in the agenda was done.

Agenda 1

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The agenda of the previous DAB meeting dated 9th August 2021 was read and the action taken on the suggestions were communicated to the members. There were no suggestions or corrections and hence everyone agreed to confirm the the minutes of the meeting and the action taken.

Agenda 2

Dr. R.V. Kale presented the draft of CO PO target matrix to the Department Advisory Members and briefly explained the procedure followed to prepare the target matrix. The Target Matrix for CO, PO, and PSO mapping, as prepared and presented, was unanimously approved by department advisory board members.

Agenda 3

Dr. R.V. Kale presented the curriculum gap identified in the R19 C Scheme syllabus for the Final year (Semesters VII and VIII) which is implemented from AY 2022-23. The respective domain group members were involved in identifying the curriculum gaps which are as follows:

| Engineering Year | Domain | Identified curricular gaps |
|-------------------------|---------------------------------|--|
| Final Year | Manufacturing | Mathematical modeling of different rapid prototyping techniques |
| | Management/ Humanities/ Science | Design for manufacturing of product with emphasis on product design and PLM |
| | Management/ Humanities/ Science | Application of AI & ML in disaster management |
| | Management/ Humanities/ Science | Diagnosing and rescuing troubled projects |
| | Management/ Humanities/ Science | Lean, agile & circular supply chain |
| | Management/ Humanities/ Science | use of reputed referencing and citation software in MS word |
| | Management/ Humanities/ Science | Role of multi-disciplinary engineering in reducing global warming, pollution, and waste generation |
| | Management/ Humanities/ Science | Aability to apply data analysis tools in product designing |

These gaps were primarily noted in the areas of emerging technology, practical applications, and alignment with industry standards. The board members unanimously agreed to the proposed

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curriculum gap for each semester as outlined. It was advised by board members that the curriculum gap may be addressed through Guest/Expert Lectures, Industrial Visits, offering internships to students, and NPTEL courses.

Agenda 4

Dr R V Kale informed the members about Honors/Minor degree programs. The program is an initiative by the University of Mumbai. The needs and the benefits of the program were discussed. The program will be initiated for semester V students and will be continued till semester VIII. Mechanical engineering students can opt for courses such as AIML, Blockchain, Robotics, Electric Vehicle, etc. The students will get to learn three theory and one practical subject for each course which is in addition to the regular curriculum of the program. Mr Ghosal concluded that it was long needed and students would benefit from the program.

Agenda 5

An industry-sponsored laboratory in the mechanical department refers to a laboratory facility or research unit within a Mechanical engineering department that receives financial support or sponsorship from an industry partner or company.

Dr R V Kale informed that the department was looking for an Industry sponsor to set up a lab facility in the department. A discussion on the steps to be taken in this direction was done. It was suggested that faculty members should approach industry for internships, projects etc and a deliberate attempt towards establishing collaboration between academia and industry needs to be done.

The industry sponsor may provide funding, equipment, technical expertise, and access to real-world challenges and data, while the department and its faculty contribute their academic expertise, research capabilities, and infrastructure.

Mr Ghosal gave the concluding remarks

Agenda 6

Dr. R V Kale elaborated on mini and major projects and the need to do these projects in collaboration with the Industry and under the mentorship of industry professional. He mentioned that some industry-sponsored projects were going on in the department but much needed to be done in this regard. A discussion was done and it was concluded that the faculty should develop

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an industry connection. The student contacts in the industry could be used in this regard. Dr. Ghosal gave the concluding remarks on the agenda.

Dr. R.V. Kale confirmed that all the points of the agenda were discussed at length and appreciated all the suggestions of the DAB members.

Principal Dr S.U. Bokade extended heartfelt gratitude to all the members and promised to consider the valuable suggestions given by the members. He appreciated their efforts to be connected with the department and ensured the continuation of this bond for many more years to come

There was no other business of agenda, the meeting thus concluded with a vote of thanks extended by Dr.R.V.Kale to all the DAB members and faculty members present for the meeting.



Dr. R.V Kale

Head, Department of Mechanical Engineering