

School of Technology, Pandit Deendayal Energy University, Gandhinagar
Department of Mechanical Engineering

Minutes of the meeting of the Board of Studies in Mechanical Engineering which was held on 11.02.2025 from 02:00 pm onwards via hybrid mode at CD Cell Conference Room, E-Block, Ground Floor and on MS Teams Platform in the presence of the following members:

A. Members Present:

Sr. No.	Name	Sr. No.	Name
1	Dr. Jatin Patel – Chairman, BoS and Head, Dept. of Mech. Engg., SoT, PDEU	6	Prof. Surendrasingh Kachhwaha, Professor, Dept. of Mech. Engg., SoT, PDEU
2	Dr. Dilip Srinivas Sundaram, Associate Professor, Mechanical Engineering, Indian Institute of Technology Gandhinagar. (External Expert-Academic)	7	Dr. Vivek Patel, Professor, Dept. of Mech. Engg., SoT, PDEU
3	Dr. Shailendra Kumar, Professor, Department of Mechanical Engineering, S.V. National Institute of Technology, Surat (External Expert-Academic)	8	Dr. Krunal Mehta, Assistant Professor, Dept. of Mech. Engg., SoT, PDEU
4.	Dr. Ravi Varma, Scientist/Engineer-SF, Space Applications Centre (SAC), Indian Space Research Organization (ISRO)	9	Dr. Hiren Dave, Assistant Professor, Dept. of Mech. Engg., SoT, PDEU
5	Dr. Ankush Sharma, Scientific Officer, Ahmedabad Textile Industry's Research Association (ATIRA) (External Expert-Industry)	10	Dr. Manjeet Keshav, Assistant Professor, Dept. of Mech. Engg., SoT, PDEU

At the beginning of the meeting, the Chairman greeted and welcomed all the members. Thereafter, the items on the agenda were taken on hand as under:

Item No.	Particulars
1.	<p>Consideration of confirmation of minutes of the previous meetings held on 13.11.2024.</p> <p><u>Resolution:</u> Resolved that the minutes of the previous meeting held on 13.11.2024 be confirmed as circulated with the agenda.</p>
2.	<p>Consideration of the note on action taken on the decisions of the previous meeting held on 13.11.2024.</p> <p><u>Resolution:</u> Resolved that the note on action taken on the decisions of the previous meeting held on 13.11.2024 circulated with the agenda as Encl.-II, be noted and approved.</p>
3.	<p>Consideration of Minor Specialization in <i>Automotive Technology</i> to be offered by the Department of Mechanical Engineering (it will be open to all FoET students including the students of Mechanical Engineering) and proposal to make it effective from the AY 2025-26.</p> <p><u>Resolution:</u> Resolved to recommend to the Faculty of Engineering & Technology with regard to introduction of new minor course for all B. Tech. programs including B. Tech. Mechanical Engineering of FoET in with proposed course structure and subjects with detailed curriculum, to be made effective from the academic year 2025-26 onwards, be approved as per Encl.-III circulated with the agenda, with the following suggestions:</p> <ol style="list-style-type: none"> The proposed initiative was highly appreciated by the BoS members. The students from B. Tech. Mechanical Engineering opting for this minor course should not be offered choice for the similar elective courses offered in higher semesters in order to avoid repetition. Some topics related to safety aspects of battery operated vehicles should be included in “Electric and Hybrid Vehicle Technology” subject. <p>In view of the above, the Chairman, be authorized to submit the revised documents incorporating the suggestions directly to the Faculty of Technology & Engineering for further consideration.</p>
4.	<p>Consideration of modifications/addition/deletion of course for M. Tech (Mechanical Engineering) programs in Department of Mechanical Engineering and proposal to make it effective from the AY 2025-26.</p> <p><u>Resolution:</u> Resolved to recommend to the Faculty of Engineering & Technology with regard to deletion of few topics for a course Thermal Science (24ME502T) offered in Sem-I of M. Tech. Mechanical Engineering of FoET and make it effective from the academic year 2025-26 onwards, be approved as per Encl.-IV circulated with the agenda.</p>

- i. The proposed changes in the syllabus of the said subject was approved by BoS members without any suggestions.
5. Consideration of new courses for Ph.D. programs in Department of Mechanical Engineering and proposal to make it effective from the AY 2025-26.

Resolution:

Resolved to recommend to the Faculty of Engineering & Technology with regard to Introduction of new courses for the Ph.D. program in supersession of existing curriculum, to be made effective for the students admitted in the academic year 2025-26 onwards be approved as per Encl.-V circulated with the agenda, with following suggestions:

- i. It was suggested for the course on **“Tribology and Surface Engineering”** that the course objective should be changed considering PhD level students.
 - ii. It was suggested for the course on **“Research Methodology in Technology”** that a topic related to reference management tool should be included with hands on practice.
 - iii. No suggestion on the course **“Advanced Engine Technologies and Alternate Fuels”**.

In view of the above, the Chairman, be authorized to submit the revised documents incorporating the suggestions directly to the Faculty of Technology & Engineering for further consideration.

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6. Consideration of NPTEL courses (minimum Twelve weeks and three credits for each course) as a course work for Research scholar (registered for PhD) if recommended by Supervisor and make it effective from AY 2025-26.

Resolution:

Resolved to recommend to the Faculty of Engineering & Technology with regard to Introduction of new courses for the Ph.D. program in supersession of existing curriculum, to be made effective for the students admitted in the academic year 2025-26 onwards be approved as per Encl.-VI circulated with the agenda, which was highly appreciated by the BoS members without any suggestion.

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7. Consideration of review of the feedback received from various stakeholders for the curriculum 2024.

Resolution:

The feedback received from various stakeholders are as follows:

- i. Inclusion of laboratory component for the subject **“Introduction to Artificial Intelligence in Mechanical Engineering”** being offered in Sem-III of B. Tech. Mechanical Engineering.

- ii. Some hands on practice should be given for the subject “**Mathematics – III**” being offered in Sem-III of B. Tech. Mechanical Engineering.

The chairman assured to incorporate the above suggestions with the following resolution/information:

1. The suggested content for the said subject can be delivered to students by organizing 1 or 2 week student development program (SDP) during vacation as inclusion of laboratory can disturb the credit structure of entire syllabus.
 2. Hands on practice for the said subject can be delivered by organizing SDP for 2-3 days.
8. Any other item with the permission of the Chair.

Resolution:

The Chairman invited the members to put forth any other suggestions for improving the teaching-learning process. As the entire curriculum is revised recently, no significant suggestions were received from any BoS members.

The meeting ended with a vote of thanks and refreshments.



Dr. Jatin Patel
Chairman,
BoS - Mechanical Engineering.