



Mechanical Engineering Department

Minutes of Board of Study Meeting held on 18.12.2024

Meeting of Board of Studies (BOS) of Mechanical Engineering held on 18-12-2024 in hybrid mode. Following members of the (BOS) were present physically in the meeting.

1. Dr. Pankaj Agarwal, HoD & Chairman
2. Dr. Alok Jain, Dean (Academic)
3. Dr. Sanjay Katarey
4. Dr. Ashish Manoria
5. Prof. Sanjay Jain
6. Prof. Sandeep Jain
7. Dr. R. M. Saxena
8. Dr. C. P. Singh
9. Prof. Neeraj Sen
10. Prof. J. P. Shakya
11. Dr. Kamlesh Sharma
12. Dr. Pradeep Singh
13. Prof. Pankaj Sonkusare
14. Prof. Nikhil M. Vyas

Following members joined the meeting online using the Google meet link:

Video call link: <https://meet.google.com/zpk-ddbo-tut>

1. Dr. P. Jaiswal, Professor, Mechanical Engineering Dept., MITS Gwalior
2. Er. Jayesh Jain, Vice President, Volvo Eicher Commercial Vehicle Ltd, Pithampur

At the onset of the meeting Chairman Dr. Pankaj Agarwal welcomed all the members and, briefed them about the agenda and, other related issues.

Following items as listed in the agenda were presented and, discussed and, final resolutions were passed as shown against the agenda items.

Handwritten signatures of the members of the Board of Studies (BOS) are present at the bottom of the page.

Agenda Item 1:

To confirm the minutes of previous BOS meeting held in the month of June 2024.

Resolution Item 1:

The minutes of the BOS meeting held in June 2024 were presented before the board members and, discussed for any further necessary amendments. The board members duly agreed through mutual consensus that the approved minutes, along with their items and, resolutions are well appropriate and, require no further amendments. The board re-approved the same minutes of previous BOS, with no essential amendments.

Agenda Item 2:

To propose change in syllabus of theory/practical's and CO's, if any, for the subjects in II Semester for 2024-2025 admitted batch in B.Tech - Mechanical Engineering.

Resolution Item 2:

The syllabus of theory/practical's and CO's of the subjects of II semester, B.Tech – Mechanical Engineering (2024-25 admitted batch) was presented on chair and, the required proposals for any changes were anticipated. The members discussed over the contents of the courses, their CO's and, attached syllabi. However, with due consensus the members agreed to keep all the courses, their CO's and, respective syllabi intact with as it is and, thus **proposed no changes** for the same.

Agenda Item 3:

To propose change in syllabus of theory/practical's and CO's, if any, for the subjects in IV Semester for 2023-2024 admitted batch B.Tech - Mechanical Engineering.

Resolution Item 3:

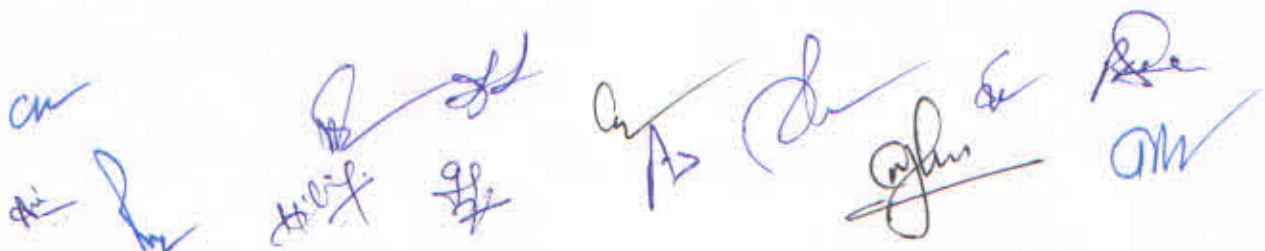
The members affirmed that the syllabus of theory/practical's and, CO's of all the subjects of IV semester, B.Tech – Mechanical Engineering (2023-24 admitted batch) have no essential requirement of amendments since, the ongoing scheme and syllabi of IV semester were framed for the batch admitted in 2022-23; discussed and, approved in the BOS held in June 2024. So, all the members proposed to keep intact with the same syllabi with **no further changes** in it.

Agenda Item 4:

To propose change in syllabus of theory/practical's and CO's, if any, for the subjects in VI Semester for 2022-2023 admitted batch in B.Tech – Mechanical Engineering.

Resolution Item 4:

The syllabus of theory/practical's and, CO's of VI semester, B.Tech – Mechanical Engineering (2022-23 admitted batch) were presented and, discussed amongst all board members. With reference to the existing syllabus of ME-603 (B), "Computer integrated manufacturing", it was proposed to include one more CO within the syllabus. The CO has been iterated as CO no. 5: "An understanding of Group technology, Cellular manufacturing, Agile manufacturing, FMS". For rest of the subjects, the board agreed to propose



no further required amendments. The board also affirmed that the ongoing scheme of VI semester was framed for the batch admitted in 2022-23; discussed and, approved in the BOS held in June 2024. Therefore, the scheme is intact in its format, along with the attached syllabi. Board approved the scheme and, syllabi of subjects, and their respective CO's with no changes.

Agenda Item 5:

To propose change in syllabus of theory/practical's and CO's, if any, for the subjects in VIII Semester for 2021-2022 admitted batch in B.Tech – Mechanical Engineering.

Resolution Item 5:

The existing syllabus of theory/practical's and, their respective CO's for the subjects in VIII semester, B.Tech – Mechanical Engineering (2021-22 admitted batch) were presented before the board with proposed changes within the course contents of ME-1881(B) Unconventional Machining Processes. Some introductory curriculum which was not a part of the existing syllabus has been introduced within the unit I. For the same subject, unit V has been revised since, the existing contents are related to additive manufacturing which do not correlate to the relevance of unconventional machining. The revised contents of unit V are now based on nano-abrasive machining processes, as suggested by subject expert, Prof. J.P. Shakya . The board members agreed with mutual consensus that the proposed changes are relevant to the nature and requirement of subject and, therefore, resolved to approve the same. The board also approved the CO's for all the subjects of VIII semester, with no further amendments in contents of other subjects.

Agenda Item 6:

To propose the modified list of courses through Swayam /NPTEL for Honours and Minors degree as per AICTE model curriculum.

Resolution Item 6:

The revised list of courses through Swayam / NPTEL for **minor degree** in Mechanical Engineering and, **honors degree** in Robotics were presented before the board members. The revised list of courses for minor degree in Mechanical Engineering have broad distribution of subjects in different categories like, basic subjects; production and manufacturing; thermal engineering, fluid mechanics and heat transfer; design engineering, and industrial engineering. The bifurcation within the list based on categories make it easier for students to opt the subjects of their choice. Board members approved the suggested list for minor degree. The AICTE guidelines have been followed to offer the honors degree and, based on that it was proposed to offer honors degree in Robotics. Dr. Pratesh Jaiswal suggested to include Additive manufacturing also as one of options for honors degree. All the members welcomed his due suggestion and agreed to work on it for the upcoming BOS. Both the lists (minors & honors) were approved with no further changes.

Agenda Item 7:

To discuss and recommend the scheme structure & syllabi of PG Programme, M.E. – Advanced Production Systems, along with their Course Outcomes (COs).

Resolution Item 7:

The revised scheme structure of I and II semester of M.E. Advance production systems were presented before the board for review and further approval. The board members reviewed the re-distribution of marks in end semester theory examination and, quiz, and, assignments. It was considered for approval by the board that the end semester theory examination each subject would of 60 marks, while the assignment and quiz will have 10 marks each. The revised scheme was approved with this newly framed structure and marks distribution. The newly drafted CO's of all the subjects of M.E. programme were also reviewed and, approved for inclusion within the course contents.


Agenda Item 8:

To recommend the scheme structure and Syllabus of Ph.D. Course Work (specific to Doctoral Research Scholars, if any).

Resolution Item 8:

It was presented by the chair that as per the Ordinance No. 11, section 40 (1) of R.G.P.V. Bhopal; the courses for the doctoral research scholars are recommended by their specific RAC. One compulsory subject of Research Methodology (4 credits out of total 12 credits) is to be opted by the scholar, while the other subjects are usually opted to earn remaining credits from the subjects within the schemes of M.E. Advance Production Systems. The board members agreed to follow the guidelines of the university.

Meeting concluded with the chairman extended thanks to all members for their valuable suggestions.



Dr. Sanjay Katarey


Dr. Ashish Manoria


Prof. Sanjay Jain


Prof. Sandeep Jain



Dr. C P Singh


Dr. Ravindra Mohan Saxena


Prof. Neeraj Sen


Dr. Kamlesh Sharma


Prof. J P Shakya


Prof. Pankaj Sonkusare


Dr. Pradeep Singh


Prof. Nikhil Mohan Vyas


Dr. Alok Jain


Dr. Pankaj Agrawal