

**S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT
& RESEARCH, NAGPUR.**



(An Autonomous Institute. Affiliated to RTMNU, Nagpur)

DEPARTMENT OF MECHANICAL ENGINEERING

Vision: Emerge as an excellent centre for Mechanical Engineering education



**BOARD OF STUDIES
MEETING-2 | Held on 26.07.2021 | MINUTES**

The Second Meeting of the Board of Studies (BOS), Department of Mechanical Engineering, S. B. Jain Institute of Technology, Management & Research constituted under Autonomy was held on 26.07.2021, at 11:00 am, in the Department of Mechanical Engineering using Google Meet. Mr. Amit Tajne, Chairman of the BOS presided over the meeting.

MEMBERS PRESENT:

Sr. No.	Name of Member	Designation
1.	Mr. Amit Tajne	Chairman
2.	Dr. A.M. Langde Professor & Head, Department of Mechanical Engineering, ACET, Nagpur	University Expert Nominee
3.	Dr. A. S. Dhoble Assistant Professor, Department of Mechanical Engineering, VNIT, Nagpur	External Subject Expert
4.	Dr. T. V. K. Gupta Assistant Professor, Department of Mechanical Engineering, VNIT, Nagpur	External Subject Expert
5.	Mr. Vaibhav Agrawal Director, Vaibhav Plasto Printing & Packaging Pvt. Ltd. MIDC, Hingna, Nagpur	Industry Representative
6.	Dr. Vinit Gupta	Special Invitee
7.	Mr. Abdul Ghaffar	Special Invitee
8.	Dr. Harish S. Bhatkulkar	Faculty Representative
9.	Mr. Faisal Hussain	Faculty Representative
10.	Mr. Hemant Bansod	Faculty Representative
11.	Mr. A.B. Totey	Faculty Representative
12.	Mr Nitish Sharma	Alumni Representative

MEMBERS ABSENT:

Sr. No.	Name of Member	Designation
1.	Dr. Mayank Chaubey	Faculty Representative
2.	Mr. Vikrant P. Katekar	Faculty Representative
3.	Ms. P.V. Holey	Faculty Representative

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At the outset, Mr. Amit Tajne, Chairman of Board of Studies, extended a cordial welcome to all the members to 2nd Meeting of Board of Studies of Mechanical Engineering. The Chairman then introduced Dr. A.M. Langde (University Expert Nominee) to the house and opened the discussion as per the framework of agenda.

The Following agenda were discussed:

AGENDA 1: Induction of Dr. A.M. Langde as a University Expert Nominee in the Board of Studies.

The Chairman formally inducted Dr. A.M. Langde into the Board of Studies of Mechanical Engineering and stated that vast & rich experienced Dr. A.M. Langde will definitely be an important addition to the Board of Studies.

RESOLUTION 1: Resolved that, Dr. A.M. Langde is inducted in the Board of Studies as University Expert Nominee.

AGENDA 2: Approval of Minutes of 1st BoS meeting held on 26.02.2021

The Chairman presented the minutes of first meeting of Board of Studies of Mechanical Engineering, agenda and resolution of first meeting, discussed and verified by the house.

RESOLUTION 2: Resolved that, minutes of 1st Board of Studies meeting is approved by the house.

AGENDA 3: Consider and finalize curriculum scheme of B.E. First year, Mechanical Engineering, session 2021-22 onwards.

The Chairman presented before the house the Curriculum scheme of B.E. First year and it was discussed at length. After due consideration the scheme was finalized.

RESOLUTION 3: Resolved that, the Curriculum Scheme of B.E. 1st Year of Mechanical Engineering has been finalized.

[Handwritten signatures in blue ink across the bottom of the page, including names like 'Amit Tajne', 'Dr. A.M. Langde', and others.]

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AGENDA 4: Consider and finalize revision made in the syllabus of Workshop Practices Lab of First Year Engineering.

Prof. Hemant Bansod, presented, the syllabus of Workshop Practices Lab. He explained the revision made in the syllabus of Workshop Practices i.e. addition of Eighth practical which is Computer Assembly and Troubleshooting and emphasized that it will help the students to understand various hardware components of a computer system, its assembly, testing and troubleshooting.

RESOLUTION 4: Resolved that, the Syllabus Workshop Practices has been finalized and approved by Board of Studies.

AGENDA 5: Consider and finalize III-VIII Semester Curriculum Scheme, Honor/Major and Minor Specialization of Mechanical Engineering Programme.

The Chairman presented the curriculum Scheme of Mechanical Engineering. He explained scheme and elaborated about the Professional Core Courses, Program & Open Electives from III to VIII semester. He further explained the thought process given while deciding Honor/Major and Minor Specialization of Mechanical Engineering Programme. After due consideration following points were suggested.

- 1) **In the scheme of third semester:** Dr. A. S. Dhoble suggested that the tutorial hour shall be converted into theory lecture and practice sheet, including variety of problems on each unit, shall be given to students.
- 2) **In Program Elective:** Dr. A.S. Dhoble and Dr. A.M. Langde suggested that Chassis Systems Design (Program Elective-I) shall be inter-changed with Internal Combustion Engines (Program Elective-II). He further stated that studying Internal Combustion Engines will help the students to understand Chassis Systems Design.
- 3) **In Open electives:** Dr. A.S. Dhoble and Dr. A.M. Langde suggested that the name of Automobile Engineering should be changed to Fundamentals of Automobile Engineering.

RESOLUTION 5: Resolved that, the changes suggested by Dr. A.S. Dhoble and Dr. A.M. Langde in the scheme, Program Electives and Open electives has been implemented. Also, the scheme of Mechanical Engineering is finalized and approved by the house and shall be put up for approval to the Academic Council.

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AGENDA 6: Consider and finalize III Semester Curriculum Syllabus of all Professional Core Courses.

The Chairman described the syllabus & CO formation processes and stated that while framing the syllabus faculties have followed AICTE Guidelines, AICTE Model Curriculum, inputs from Various Stakeholders including Industry Experts & Subject Experts, Revised Bloom's Taxonomy and study of syllabus of elite institutions.

- Prof. Faisal Hussain, presented, the syllabus of Kinematics of Machines (Theory). He further explained the process for formation of syllabus, Course Outcomes and CO/PO mapping methodology using scientific temperament. All the members were satisfied with the syllabus.
- Mr. Himanshu Wagh, presented, the syllabus of Engineering Thermodynamics (Theory). He explained the unit-wise theory course syllabus of Engineering Thermodynamics. Dr. A.M. Langde suggested that, in Unit-I, topic "SI Units and Conversion factor" should be added in bridge course. He further asked to increase the number of Text books and Reference books for all the subjects.
- Prof. Ajay Joshi, presented, the syllabus of Material Science and Metallurgy (Theory and Practical). Dr. A.S. Dhoble raised the point that, in Unit-II, failure analysis should be added. Prof. Ajay Joshi also agreed to this suggestion and he explained that, this topic of failure analysis is already being added in the Strength of Material Theory Lab Course (IV Semester). Thereafter Prof. Ajay Joshi has explained the Material science and Metallurgy Lab course with complete list of experiments.
- Prof. Archis Dhawale, presented, the syllabus of Manufacturing Processes (Theory and Practical). He explained the unit-wise theory course syllabus of Manufacturing Process and list of practicals covered in the Lab. Dr. A.M. Langde suggested that topic "Types of die in die casting" should be included in Unit-I.
- Prof. Nilesh Gowardipe, presented, the syllabus of Machine Drawing and Solid modeling Lab. He explained the objective and course outcome which gives the clear understanding that what one can get after successful completion of the course. The list of practical highlights the syllabus or topics covered. More emphasis is given on the CAD software.
- Prof. P.H.Jaiswal highlighted the objective of Industrial Visit and Report Writing and explained the format of the course i.e., number of industries students have to visit and report submission.

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RESOLUTION 6: Resolved that, suggestions given by the members are implemented and the syllabus of third semester subjects finalized and approved by the house.

AGENDA 7: Finalize and approve Outcome Based Education (OBE) Manual of Mechanical Engineering Programme.

Prof. Mohammad Hasan Akhtar presented the Outcome Based Educational Manual before the house. He stated that the purpose of the manual is to describe the assessment process to be practiced by the Mechanical Engineering department under autonomy to improve student learning and development. Furthermore, the Chairman emphasized that the assessment process adopted by the department will facilitate implementation of outcome based education and help in effectively accomplishing the department's mission.

RESOLUTION 7: Resolved that, Outcome Based Education(OBE) Manual of Mechanical Engineering Programme are finalized and approved.

AGENDA 8: Finalize and approve the Programme Educational Objectives (PEOs) and Programme Specific Outcomes (PSOs) of Mechanical Engineering Programme in view of autonomy curriculum.

The chairman presented the Program Specific Outcomes (PSOs) and Programme Educational Objectives (PEOs) of Mechanical Engineering Programme. He further stated that PSOs are statements that describe what the students of a specific engineering program should be able to do by the time of graduation and explained the methodology of finalizing of PSOs & PEOs using scientific temperament.

RESOLUTION 8: Resolved that, Programme Educational Objectives (PEOs) and Programme Specific Outcomes (PSOs) are finalized and approved by the house.

AGENDA 9: Consider and approve the panel of examiners for theory and practical exam for the academic session 2021-22.

Dr. A.S. Dhoble suggested that apart from the given list, the chairman of BoS may appoint Internal/ External Paper Setter, Examiner or Moderator for Theory or Practical Courses in case of non-availability of the faculties from approved list.

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RESOLUTION 9: Resolved that, suggestion given by the Subject Expert will be incorporated and panel of examiners for theory and practical exam has been approved.

AGENDA 10: Discussion on effective curriculum delivery techniques including activity-based learning.

Dr. A.M. Langde, Dr. A.S. Dhoble and Dr. TVK Gupta emphasized on effective communication with the students for smooth implementation of the autonomy. Dr. A.S. Dhoble insisted that innovative teaching techniques along with ICT tools should be used and demonstration models, such as cut view of IC Engine can also be used, for better understanding.

Dr. TVK Gupta emphasized that activity based learning helps the students in memorizing the information and faculties should design the activities which focusses on independent investigation and analysis by the students.

RESOLUTION 10: Resolved that, suggestions given by subject experts will be implemented by the department.

AGENDA 11: Any other agenda with permission of the Chairman.

Dr. A.M. Langde, Dr. A.S. Dhoble and Dr. TVK Gupta encouraged all the faculty members to focus on an effective teaching-learning philosophy and wished them all the very best for successful implementation of Autonomy.

RESOLUTION 11: Resolved that, the department will incorporate all the valuable suggestions given and discussed by the members of Board of Studies.

Chairman, Prof. Amit Tajne, thanked all the members of Board of Studies for their valuable time, inputs and suggestions. He assured that all the inputs and suggestions given by the BoS will be incorporated by the department.

A.A. Joshi
Dr. A.S. Dhoble
Dr. H.S. Bhambhani
Dr. A.M. Langde
Dr. TVK Gupta
Dr. A.S. Dhoble
Dr. A. Chaffer

Prof. Amit. D. Tajne
(BOS Chairman of ME Department)

H.M. Baniya