

**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-7| Held on 14.07.2023 | MINUTES.**

The Seventh Meeting of the Board of Studies (BoS) of Mechanical Engineering Department, S. B. Jain Institute of Technology, Management, & Research was held on 14.07.2023, at 11:00 am, in the Conference Hall of the Institute. 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 Dean R&D and Professor, Department of Mechanical Engineering, ACET, Nagpur	University Expert Nominee
3.	Dr. A. S. Dhoble Associate Professor, Department of Mechanical Engineering, VNIT, Nagpur	External Subject Expert
4.	Dr. T. V. K. Gupta Associate Professor, Department of Mechanical Engineering, VNIT, Nagpur	External Subject Expert
5.	Mr. Saurabh Deo Sr. Manager (Production and Tooling) Jindal saw Ltd. Seamless tube Division	Industry Representative
6.	Mr. Mahendra Jannam Deputy Manager-Project Development Powerica ltd.	Alumni Representative
7.	Dr. Harish S. Bhatkulkar	Faculty Representative
8.	Mr. Ajay Joshi	Faculty Representative
9.	Mr. Faisal Hussain	Faculty Representative
10.	Mr. Pankaj Jaiswal	Faculty Representative
11.	Mr. Hemant Bansod	Faculty Representative

At the outset, Mr. Amit Tajne, Chairman of Board of Studies, extended a cordial welcome to all the members to 7th Meeting of Board of Studies of Mechanical Engineering.

The Following agenda were discussed:

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AGENDA 1: Approval of Minutes of 6th meeting of Board of Studies held on 23.02.2023.

The Chairman presented the minutes of sixth meeting of Board of Studies of Mechanical Engineering. Agenda and resolution of sixth meeting discussed and verified by the house.

RESOLUTION 1: Resolved that, minutes of Sixth Board of Studies meeting are approved by the house.

AGENDA 2: Induction of Mr. Mahendra Jannam as Alumni Representative in the Board of Studies.

The Chairman formally inducted Mr. Mahendra Jannam as Alumni Representative into the Board of Studies and conveyed the vision and mission of the Mechanical Engineering Department.

RESOLUTION 2: Resolved that, Mr. Mahendra Jannam inducted in Board of Studies as Alumni Representative.

AGENDA 3: Apprise with National Education policy [NEP] Maharashtra State GR. Dt. 04/07/2023 in respect of implementation of NEP in Autonomous Engineering Colleges with effect from the academic year 2023-24.

Prof Amit Tajne elaborated on National Education policy [NEP] Maharashtra State GR. Dt. 04/07/2023 in respect of implementation of NEP in Autonomous Engineering Colleges. The key points highlighted in the GR were discussed, including Credit Framework under Four-Years UG Engineering Programme with Multiple Entry and Multiple Exit options, Distribution of Credits across Four Years Engg./Tech. Degree, Choice of Major and Minor Subjects/ Discipline, Courses on Indian Knowledge System, Credit Specifications, ABC, Admission System, Multiple Entry and Exit Path and Lateral Entry, Directives for State Universities and Autonomous Colleges and Action Plan by Autonomous Colleges with Timelines.

AGENDA 4: Appraisal of feedback received from various stakeholders against the newly designed curriculum scheme as per the NEP.

Prof. Himanshu D. Wagh presented the structured feedback taken from stakeholders on the newly designed curriculum scheme as per the NEP. All members are satisfied with the feedback.

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AGENDA 5: Consider and finalize I-VIII Semester Curriculum Scheme, of B.Tech. Mechanical Engineering Programme as per the NEP to be implemented for the Batch admitted in the academic year 2023-24 and onwards.

The Chairman presented the curriculum scheme of I-VIII semester B.Tech Mechanical Engineering Programme wef. 2023-24, in compliance with National Education policy [NEP] Maharashtra State GR. Dt. 04/07/2023 in respect of implementation of NEP in Autonomous Engineering Colleges.

RESOLUTION 5: Resolved that I-VIII Semester Curriculum Scheme as per NEP is finalized and approved by the house.

AGENDA 6: Consider and finalize Syllabus of courses offered in 1st Year Engineering of Engineering Graphics & Design (Theory & Lab), Workshop Practices, Basics of Mechanical Engineering (Theory & Lab) and Computer Aided Drafting as per the NEP to be implemented wef. academic session 2023-24.

Prof. Himanshu Wagh presented the syllabus for Engineering Graphics & Design (Theory & Lab), Workshop Practices, Basics of Mechanical Engineering (Theory & Lab) and Computer Aided Drafting as per the NEP. Mr. Mahendra Jannam emphasized that Computer Aided Drafting as vocational course may offer students a practical and valuable skill set, making them well-prepared for a variety of careers in design, engineering, and related fields.

RESOLUTION 6: Resolved that, the syllabus of Engineering Graphics & Design (Theory & Lab), Workshop Practices, Basics of Mechanical Engineering (Theory & Lab) and Computer Aided Drafting as per the NEP are finalized by the house.

AGENDA 7: Consider and finalize Multiple Exit Policy for the B.Tech. Mechanical Engineering Programme as per the NEP for the Batch admitted in the academic year 2023-24 and onwards.

The Chairman presented the Multiple Exit Policy for the B.Tech. Mechanical Engineering Programme as per the NEP. Dr. A.S.Dhoble and Dr. T.V.K. Gupta highlighted the points in regards to the multiple exit policy which includes the risk of incomplete skill sets, limited career opportunities, challenges in credit transfer. They also highlighted the practical benefits such as

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reduced financial burden and early skill acquisition that also fosters a learning environment that adapts to changing interests and circumstances.

RESOLUTION 7: Resolved that, Multiple Exit Policy for the B.Tech. Mechanical Engineering Programme as per the NEP is finalized by the house.

AGENDA 8: Apprise with the Value-Added Course titled "Use of Excel, power Point and LinkedIn for Professional Growth" conducted for students of IV semester in session 2022-23 for imparting Industry relevant skills and its consideration in the Institute's incentive marks scheme.

Prof. Ajay Joshi elaborated on Value-Added Course titled "Use of Excel, Power Point and LinkedIn for Professional Growth" scheduled for 30 Hours. He explained about the process of framing and approval of the syllabus for the course. Also informed the house about those students who cleared the assessment of the course and have been allocated incentive marks as per the incentive marks policy. Mr. Mahendra Jannam said that such a type of course will surely help students in their professional journey.

AGENDA 9: Apprise with the conduction of ongoing Practice School-II and Practice School-III for V and VII Semester Students.

Prof. Faisal Hussain discussed about the ongoing Practice School-II (V Semester) and Practice School-III (VII Semester). Under Practice School- II students were given option to undergo internship at VR Jamdar Siemens Centre of Excellence VNIT, Indo-German Tool Room, Industry Internship, Code academy and Codemate IT Services for 2 weeks. Practice School-III students were required to undertake Industry internship of minimum 30 days with an objective of hands-on experience in real-world industrial settings, enabling them to apply theoretical knowledge gained in the classroom to practical engineering challenges. Mr. Saurabh Deo said industrial internship helps students to understand the insights of industrial culture, hence such practices shall be maintained regularly.

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AGENDA 10: Discussion on academics and related activities of the department carried out in IV and VI semester, session 2022-23 (EVEN).

The chairman elaborated on the academic related activities such as Experiential Learning, Creative Assignments, Activity Based Learning, Industrial Visits, and Industry person Expert Talks for the students of IV and VI semester. Mr. Mahendra Jannam said that such types of Teaching-Learning practices help students in applying theoretical knowledge in meaningful ways and preparing them for success in both academic and real-world settings.

AGENDA 11: Consider and finalize equivalence and absorption scheme for the students seeking admission in 3rd and 4th Year B.Tech. Programme Autonomous Pattern from University pattern wef. 2023-24.

Prof. Pankaj Jaiswal presented the equivalence and absorption scheme for the students seeking admission in 3rd and 4th Year B.Tech. Programme Autonomous Pattern from University pattern. He explained that students seeking admission in the 3rd year and 4th year shall undertake some additional courses as the audit and mandatory courses.

RESOLUTION 11: Resolved that, equivalence and absorption scheme for the students seeking admission in 3rd and 4th Year B.Tech. Programme Autonomous Pattern from University pattern wef. 2023-24 is finalized by the house.

AGENDA 12: Consider and finalize the panel of examiners for Theory and Practical examination for B. Tech. I and II semester NEP compliant courses under various categories.

Prof. Himanshu Wagh presented the list of panels of examiners for the Theory and Practical examination for B. Tech. I and II semester NEP compliant courses under various categories.

RESOLUTION 12: Resolved that, panel of examiner for Theory and Practical examination for B. Tech. I and II semester NEP compliant courses under various categories are finalized by the house.

Prof. Amit. D. Tajne
(BoS Chairman of ME Department)
Board of Studies

Mechanical Engineering,
SBJITMR, Nagpur

Dr. H. S. Bhaskar
Ajay Joshi

Dr. Himanshu Wagh

P. Jaiswal

T. C. Phadnis

Dr. A. Langde

Dr. A. Langde

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**REVISED CURRICULUM SCHEME
FOR
B.TECH. MECHANICAL ENGINEERING
With effect from 2023-2024
4th YEAR
SEMESTER-VIII**

Scheme of Teaching & Examination of Bachelor of Technology, VIII Semester B.Tech. (Mechanical Engineering)										
Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem. Exam	Total	Duration (Hrs.)
1	PCCME801T	Design of Mechanical Drives	3	0	0	3	40	60	100	3
2	PEC	Program Elective - V	3	0	0	3	40	60	100	3
3	PEC	Program Elective - VI	3	0	0	3	40	60	100	3
4	PROJME801	Project - II / One Semester Industry Project / Incubation/Industry Internship	0	0	12	6	100	100	200	-
TOTAL			9	0	12	15	220	280	500	

Program Elective -V

Sr. No.	Course Code	Course Title
1	PECME801T	Production Planning and Control
2	PECME802T	Automation in Production
3	PECME803T	Hybrid Electric Vehicle Propulsion

Program Elective -VI

Sr. No.	Course Code	Course Title
1	PECME804T	Cryogenics
2	PECME805T	Computational Fluid Dynamics
3	PECME806T	Solar Energy Utilization

Abbreviations:

HSMC - Humanities and Social Sciences including Management Courses

BSC - Basic Sciences Courses

PCC - Professional Core Courses

PEC - Professional Elective Courses

OEC - Open Elective Courses

PROJ - Project

MC - Mandatory Courses

Dr. H.S. Bhatkulkar

R.S. Humain

B. Jeyaraj

Ajay Joshi

Dr. A. Akhate

Dr. A. Langde

Revision	BoS Meeting	Date	W.E.F
01	8 th	03-01-24	2023-24 (Non-NEP)

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Inclusion of Industry Internship in Eight Semester of B.Tech. Mechanical Engineering Programme wef. 2023-24.

1. It is proposed that, the eight semester students of B.Tech. Mechanical Engineering may be given an option to undertake Industry Internship in the Eight Semester under the course code: PROJME801.
2. For the same, the Curriculum Scheme of VIII Semester needs to be revised and is proposed as under:

Scheme of Teaching & Examination of Bachelor of Technology VIII Semester B.Tech. (Mechanical Engineering)										
Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	PCCME801T	Design of Mechanical Drive	3	0	0	3	40	60	100	3
3	PEC	Program Elective - V	3	0	0	3	40	60	100	3
4	PEC	Program Elective-VI	3	0	0	3	40	60	100	3
5	PROJME801	Project-II/One Semester Industry Project / Incubation/ Industry Internship	0	0	12	6	100	100	200	-
		TOTAL	9	0	12	15	220	280	500	

3. The proposed Industry Internship during VIII Semester shall be offered subject to fulfillment of selection criteria by the student as decided by ME department, grant of permission by industry / organization where internship is to be carried out, approval by head of department, availability of faculty and other requirements/constraints if any. On selection, it shall be made mandatory for the student to abide by the guidelines issued by ME department and the industry regarding internship. The student shall also submit undertaking in this regard.
4. The Industry Internship proposed schedule, duration and documentary evidence are as under:
Schedule: During 8th Semester.
Duration: Minimum 90 days.
Document as Evidence: Internship certificate and report.

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BoS Meeting	Date	W.E.F
8 th	03-01-24	2023-24 (Non-NEP)

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5. Proposed Assessment & Evaluation of Industry Internship:

Total Marks: 200 marks
Continuous Evaluation: 100 marks
End Sem. Exam: 100 marks

Continuous Evaluation

For Industry Internship, there shall be continuous evaluation during the semester. The continuous evaluation shall be through regular assessment by faculty mentor and one review seminar shall be conducted by the Internship Review Committee (IRC). The IRC shall consist of the Head of the Department, Internship Coordinator and one Senior Faculty member of the department.

The following criteria for continuous evaluation shall be followed:

S. No.	Criterion	Weightage
1	Regular Assessment	40 %
2	One Review Seminar	60 %

End Semester Examination

The end semester examination for this proposed Industry Internship shall be held by a committee consisting of an External Examiner, Head of the Department and Faculty Mentor. The external examiner shall be preferably from Industry as decided by the Chairman, BoS.

The average of the marks awarded by the committee members may be taken into consideration in case of variation among the members.

The following criteria for evaluation is proposed:

S. No.	Criterion	Weightage
1	Internship Report	40 %
2	Presentation and Viva Voce	60 %

6. For Theory Course/s of eight semester, the following amendments are recommended to be made for the students undertaking Industry Internship:

- The student must successfully complete the course/s during the scheduled duration. The mode of learning shall be online/ offline.
- The continuous evaluation shall comprise of TAEs of 100% weightage. Total two TAEs shall be undertaken with weightage of 50% each as decided by the ME department.

Dr. H. S. Bhatkulkar *H. S. Bhatkulkar* *P. Jaiswal* *A. Jaiswal* *Dr. A. Langde*

BoS Meeting	Date	W.E.F
8 th	03-01-24	2023-24 (Non-NEP)

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Dr. A. Shinde *Dr. A. Langde*