



**Annasaheb Dange College of Engineering and
Technology, Ashta
An Autonomous Institute**

Minutes of Meeting

BOS Meeting: S. Y. B. Tech (Revision 2)

Day & Date – Tuesday, 25th July, 2023

DEPARTMENT OF MECHANICAL ENGINEERING



Sant Dnyaneshwar Shikshan Sanstha's
Annasaheb Dange College of Engineering and Technology
Ashta, (District: Sangli)



Department of Mechanical Engineering
BOS: MINUTES OF MEETING

Date: 25th July, 2023

BOS Meeting Report & Minutes

Day & Date – Tuesday, 25th July, 2023

Venue: Online (Google Meet app)

Time: 10:30 am to 11.50 am

Members present for the Meet

Sr. No	Name of Expert	Designation	Sr. No	Name of Expert	Designation
1	Dr. M. M. Jadhav	Chairman (HOD)	15	Mr. A. R. Mane	Member
2	Dr. V. R. Naik	VC Nominee	16	Mr. Y. P. Ballal	Member
3	Dr. S. S. Mohite	Academic Expert-1	17	Mr. K. J. Burle	Member
4	Dr. S. S. Ahankari	Academic Expert-2	18	Mr. G. N. Rakate	Member
5	Mr. Anil A. Kute	Alumni Representative	19	Mr. H. H. Patil	Member
6	Dr. Ramesh S. Gavade	Industry Expert	20	Mr. S. V. Patil	Member
7	Dr. L. Y. Waghmode	Member	21	Mr. P. V. Mali	Member
8	Dr. S. P. Chavan	Member	22	Mr. G. M. Chendke	Member
9	Dr. P. D. Kulkarni	Member	23	Mr. S. T. Ghutukade	Member
10	Mr. G. B. Pawar	BOS In-charge	24	Mr. V. S. Gondkar	Member
11	Mr. A. M. Pirjade	Member	25	Mr. R. T. Patil	Member
12	Dr. V. B. Patil	Member	26	Mr. P. B. Patil	Member
13	Mr. A. A. Jadhav	Member	27	Mr. A. S. Tate	Member
14	Mr. R. R. Gaji	Member	28	Mr. S. V. Nishandar	Member



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Agenda of the Meet

Sr. no.	Time	Particulars
1.	10.30 am to 10.35 am	Welcome
2.	10.35 am to 10.40 am	Introduction of BOS Committee Members
3.	10.40 am to 10.45 am	To confirm the minutes of 7 th meeting of BOS
4.	10.45 am to 10.55 am	To note the action taken report on the decisions taken during 7 th meeting of BOS
5.	10.55 am to 11.15 am	To discuss and modify the 160 credit structure and discuss in detail the S. Y. B. Tech Curriculum courses of 160 credit as per NEP guidelines.
6.	11.15 am to 11.45 am	To discuss and finalize the curriculum contents of S. Y. B. Tech 160 credit.
7.	11.45 am to 11.50 am	Vote of thanks



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1. Dr. M. M. Jadhav, Chairman (BOS) & Head of Mechanical Engineering Department chaired the meeting. Mr. R. R. Gaji welcomed all the members to the Board of Studies Meeting of the Department of Mechanical Engineering and briefed agenda of meeting.
2. Mr. G. B. Pawar introduced new BOS committee members those will be associated for next three years.
3. Dr. M. M. Jadhav briefed MoM, suggestions and action taken report of 7th BOS meeting.
4. Dr. M. M. Jadhav presented the curriculum structure of 160 credit and detail curriculum of S. Y. B. Tech. The guidelines prescribed by AICTE and State government for NEP are incorporated in curriculum.
5. The number of credits and contact hours allotted for core courses, professional courses, major and minor courses, open electives, vocational and skill development courses, humanity sciences, environmental sciences and value added courses are discussed and confirmed. The category wise credits are as given below.

Course Category	Guideline	Actual Credits
BS	14-16	16
ES	12-14	13
PC	74-78	75
MN	14	14
OE	08	08
HSS	14	14
VSEC	08	08
CC	04	04
ELC	20	18
Total	170	170

6. As per guidelines of NEP open elective courses needed to be floated for Mechanical Engineering students by other institutes and its importance is highlighted.
7. The various new courses added to give the exposure and inculcate the skills among students. Modern mechanical engineering software's and emerging area of artificial intelligence and machine learning are included.



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8. The various minor courses floated by Mechanical Department for other department students is discussed. The minor courses required to be floated by other engineering branches for mechanical engineering students is also discussed. The Minors to be floated by Mechanical Departments are as given below:

Stream-I: Automation and Robotics

	Course Name	Course Code	Credits
Minor-I	Introduction to Mechatronics	2MEAR201	3
Minor-II	Industrial Automation	2MEAR301	3
Minor-III	Robotics	2MEAR302	2
Minor-IV	PLC and SCADA	2MEAR401	3
Minor Project	Minor Project	2MEAR402	3

Stream-I: Production Stream

	Course Name	Course Code	Credits
Minor-I	Industrial Engineering	2MEIE201	3
Minor-II	Operations Research	2MEIE301	3
Minor-III	Supply Chain Management	2MEIE302	2
Minor-IV	Total Quality Management	2MEIE401	3
Minor Project	Minor Project	2MEIE402	3

9. Dr. R. S. Gavade industry experts raised query about the assessment methods for industrial training, students projects and internship, the current practices for the assessment of that are discussed.
10. As per suggestions given by Dr. S. S. Mohite and other experts, it is finalized to add one more stream related to the production domain minor courses.
11. Mr. Anil Kute suggested improving the presentation and communication skill of students by framing the syllabus accordingly.
12. Dr. S. S. Ahankari suggested to add the art, law, business and liberal learning courses in open electives.
13. Dr. V. S. Gavade suggested to modify the curriculum of the course Environment Science as per the industry requirements.



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14. Dr. S. S. Ahankari highlighted importance of making time to be available for students in between two successive semesters for completion of various vocational courses.

15. The domain wise professional elective courses have discussed and appreciated by Dr. S. S. Mohite and other experts. The Semester wise professional electives are as given below:

T.Y. B.Tech – Semester-V

Professional Elective-I

Code	Domain	Course
2MEPE307 2MEPE308 2MEPE309	Design	➤ Noise and Vibration ➤ Machine Tool Design ➤ Experimental Stress Analysis
2MEPE310 2MEPE311 2MEPE312	Thermal	➤ I. C. Engines ➤ Steam Engineering ➤ Renewable Energy Engineering
2MEPE313 2MEPE314 2MEPE315	Manufacturing	➤ Non Distractive Techniques ➤ Metal Joining Process ➤ Modern Manufacturing Process

T.Y. B.Tech – Semester-VI

Professional Elective-II

Code	Domain	Course
2MEPE322 2MEPE323 2MEPE324	Design	➤ Finite Element Analysis ➤ Mechanical System Design ➤ Condition Monitoring
2MEPE325 2MEPE326 2MEPE327	Thermal	➤ Solar Technology ➤ Computational Fluid Dynamics ➤ Alternative Fuels



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2MEPE328	Manufacturing	➤ Foundry and Forming Technology
2MEPE329		➤ Additive Manufacturing
2MEPE330		➤ Composite Materials

B.Tech – Semester-VII

Professional Elective-III

Code	Domain	Course
2MEPE408 2MEPE409 2MEPE410	Design	➤ Reliability Engineering ➤ Vehicle Engineering ➤ Process Equipment Design
2MEPE411 2MEPE412 2MEPE413 2MEPE414	Thermal	➤ Power Plant Engineering ➤ Energy Management ➤ Design of Thermal Systems ➤ Cogeneration and Waste Heat Management
2MEPE415 2MEPE416 2MEPE417 2MEPE418 2MEPE419 2MEPE420	Manufacturing	➤ IMOR ➤ Industrial Engineering ➤ Total Quality Management ➤ Total Productive Maintains ➤ Production Management ➤ Supply Chain Management

16. The course categories that are employability, skill development and entrepreneurship have been discussed.

17. As per need of NEP the provisions framed for multiple exits are appreciated by Dr. S. S. Ahankari. The vocational Courses to be completed to earn the credits after first year, second year and third year are as given below.

After First Year

- Computer Aided Drafting (2)
- Training on AutoCAD (2)



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- Welding and Fabrication(2)
- Pattern making (2)
- Fitter (2)
- Assembly Technician (2)
- Turner (2)

After Second Year

- CNC Programming (2)
- 3D Modeling Software (CATIA, SolidWORKS, Creo, NX)(2)
- Motor Mechanics (2)
- Application of Ardino Programming (2)
- Vehicle Maintenance (2)
- Machinist (2)
- Automotive Service Techniques (2)

After Third Year

- HVAC (2)
- Training on ANSYS/Hypermech (2)
- Application of MATLAB for Mechanical Engineering (2)
- Industrial Hydraulics and Pneumatics (2)
- Automation and Robotics (2)
- Piping Design (2)
- Bearing Maintenance (2)

18. The number of newly added courses and syllabus deviation as compared with previous revision is discussed.

19. Dr. V. R. Naik appreciated the efforts taken for framing the 160 credit curriculum structure and detailed S.Y. B.Tech curriculum.



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The detailed suggestions for different courses are summarized below:

Second Year B. Tech

SEMESTER-III

Course Code	Course	Suggestions given
2MEPC201	Applied Mathematics-III	<ul style="list-style-type: none">Heavy content (Suggested to reduce the content)
2MEPC202	Kinematics of Machines	<ul style="list-style-type: none">No suggestion
2MEPC203	Applied Thermodynamics	<ul style="list-style-type: none">No suggestion
2MEPC204	Mechanics of Deformable Solids	<ul style="list-style-type: none">Add failure theories
2MEPC205	Material Science and Metallurgy	<ul style="list-style-type: none">Change the order of unit 3 that is Mechanical Testing. Place it at Unit 5.Rearrange the content to take heat treatment with iron carbide diagramPoint, plane and line defect must be included (imperfection in solid)
2MEPC251	Material Science and Metallurgy Laboratory	<ul style="list-style-type: none">No suggestion
2MEPC252	Machine Tools	<ul style="list-style-type: none">No suggestion
2MEPC253	Machine Drawing Laboratory	<ul style="list-style-type: none">No suggestion
2MEVS254	Python Programming Laboratory	<ul style="list-style-type: none">No suggestion
2MEHS206	Universal Human Values	<ul style="list-style-type: none">No suggestion
2MEHS207	Environment Studies	<ul style="list-style-type: none">Climate change, Sustainability, Circular Economy need to be included
2CCHS208	Aptitude Part I	<ul style="list-style-type: none">No suggestion



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Second Year B. Tech

SEMESTER-IV

Course Code	Course	Suggestions given
2MEPC209	Fluid Mechanics	• No suggestion
2MEPC210	Machine Design-I	• No suggestion
2MEPC211	Manufacturing Processes	• No suggestion
2MEPC212	Dynamics of Machines	• No suggestion
2ME*****	Minor Course - I	• No suggestion
2MEPC255	Fluid Mechanics Laboratory	• No suggestion
2MEPC256	Dynamics of Machines Laboratory	• No suggestion
2MEPC257	CAD Laboratory	• No suggestion
2MEPC258	Manufacturing Laboratory	• No suggestion
2MEPC259	Microcontroller Laboratory	• No suggestion
2MEHS213	Psychology	• No suggestion
2MEHS214	Constitution of India	• No suggestion
2MEEL215	Innovation/Prototype	• No suggestion
2CCHS216	Aptitude Part II	• No suggestion

Prepared By

BOS In charge

Approved by
H.O.D

Mechanical Engineering