



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

**Minutes of Meeting**

**BOS Meeting: Third Year B.Tech (170 Credits)**

**Day & Date – Friday, 05<sup>th</sup> February, 2021**

**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: 5<sup>th</sup> February, 2021.**

**BOS Meeting Report & Minutes**

**Day & Date - Friday, 05<sup>th</sup> February, 2021**

Venue: Online (Microsoft Teams app)

Time: 10:00 am to 1:30 pm

**Members present for the Meet**

Sr. No	Name of Expert	Designation
1	Dr.L. Y. Waghmode	Chairman (HoD)
2	Dr. S. T. Chavan	VC Nominee
3	Dr. S. S. Mohite	Academic Expert-1
4	Dr. V. D. Shinde	Academic Expert-2
5	Mr. Ganeshprasad Nikam	Alumni Representati ve
6	Mr. Amod Kulkarni	Industry Representati ve
7	Dr. S. P. Chavan	Member
8	Dr. A. B. Shinde	Member
9	Dr. P. D. Kulkarni	Member
10	Dr. S. A. Moolya	Member
11	Mr. A. M. Pirjade	Member
12	Mr. V. B. Patil	Member
13	Mr. M. M. Jadhav	Member

14	Mrs. J. S. Jadhav	Member
15	Mr. A. A. Jadhav	Member
16	Mr. P. S. Daingade	Member
17	Mr. R. R. Gajl	Member
18	Mr. A. R. Mane	Member
19	Mr. Y. P. Ballal	Member
20	Mr. V. S. Ganachari	Member
21	Mr. G. B. Pawar	Member
22	Mr. K. J. Burle	Member
23	Mr. G. N. Rakate	Member
24	Mr. H. H. Patil	Member
25	Mr. S. V. Patil	Member
26	Mr. V. G. Salunkhe	Member
27	Mr. P. V. Mali	Member
28	Mr. K. I. Nargatti	Member
29	Mr. P. M. Wadekar	Member
30	Mr. G. M. Chendke	Member
31	Mr. S. L. Chittewar	Member
32	Mr. S. T. Ghutukade	Member
33	Mr. V. S. Gondkar	Member
34	Mr. R. T. Patil	Member



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35	Mr. S. S. Chavan	Member
36	Mr. P. B. Patil	Member
37	Mr. A.V. Patil	Member
38	Mr. A. S. Tate	Member
39	Mr. S. V. Yadav	Member
40	Mr. P. B. Pawar	Member
41	Mr. P. R. Bhokare	Member

42	Mr. A. S. Dabhale	Member
43	Mr. S. V. Nishandar	Member
44	Mr. D. A. Mhamane	Member
45	Mr. S. S. Deshamukh	Member
46	Mr. V. T. Didake	Member
47	Mr. S. S. Gawade	Member
48	Mr. D. A. Dhanawade	Member



  
H.O.D.  
Mechanical Engineering



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**Agenda of the Meet**

<b>Sr. no.</b>	<b>Time</b>	<b>Particulars</b>
1.	10:30 am to 10:35 am	Welcome
2.	10:35 am to 10:45 am	To confirm the minutes of 4 <sup>th</sup> meeting of BOS.
3.	10:45 am to 10:55 am	To note the action taken report on the decisions taken during the 4 <sup>th</sup> meeting of BOS.
4.	10:55 am- 11:45 am	To discuss and modify the 170 credit structure to include value added courses as per NAAC and NBA requirements.
5.	11:50 am – 1:20 pm	To discuss and finalize the curriculum contents of TY B. Tech. Sem -V and Sem -VI of 170 credits.
6.	1:20 pm - 1:30 pm	Vote of thanks.



  
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### **Minutes of Meeting**

1. Dr. L. Y. Waghmode, Chairman (BOS) & Head of Mechanical Engineering Department chaired the meeting and welcomed all the members to the Board of Studies Meeting of the Department of Mechanical Engineering.
2. Dr. L. Y. Waghmode introduced the Department and welcomed all the BOS members.
3. The minutes of 4<sup>th</sup> BOS meetings were confirmed.
4. Discussion on value added courses was carried out.
5. Separate meetings of each group, namely Design, Manufacturing, and Thermal, were started after value added courses discussion.
6. Dr. S. P. Chavan, Dr. S. A. Moolya and Mrs. J. S. Jadhav presented the curriculum of Design, Manufacturing and Thermal groups respectively. Mr. K. J. Burle also presented the curriculum to the BOS members belonging to industry separately.



  
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The detailed suggestions for different courses are summarized below:

Value Added Courses:

1. No. of hours can be increased
2. Hands on training Upto 60 Hrs can be given
3. Value added courses can be floated in terms of theory as well as practical sessions
4. Industrial visits can be arranged for students to get more practical insights.
5. Some credit/certification/minor degree can be offered to the students at institute level to make it more effective.
6. Artificial Intelligence and Machine Learning can also be floated.
7. Innovation and Design Thinking can be thought of as a value added course.
8. Students to be made aware in advance.
9. Students can be asked for the courses of their choice.
10. According to response of the students, some minor/nominal fees can also be charged.

**Third Year B.Tech (170 Credits)**

SEMESTER-V

Course Code	Course	Suggestions given
1MEPC301	Turbo Machinery	<ul style="list-style-type: none"><li>• Cover more numerical on MPSH and NPSH.</li><li>• Cover application of pumps</li></ul>
1MEPC302	Heat and Mass Transfer	<ul style="list-style-type: none"><li>• Cover basic metal properties like heat transfer coefficient.</li><li>• Include basics of mass transfer only. Avoid analytical content (no numerical and derivations)</li></ul>
1MEPC303	Design of Machine Elements -II	<ul style="list-style-type: none"><li>• Change the topic sequence (Consider unit 4 as unit 1)</li></ul>
1MEPC304	Industrial Hydraulics and Pneumatics	No suggestions



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Course Code	Course	Suggestions given
1MEPE305	Power Plant Engineering	<ul style="list-style-type: none"><li>Plant maintenance not necessary to cover under power plant engineering.</li><li>Add steam energy audit.</li></ul>
1MEPE306	Mechanical System Design	No suggestions
1MEPE307	Foundry and Forming Technology	<ul style="list-style-type: none"><li>Include Manufacturing Technology by P. N. Rao book in text book list.</li><li>Refer GATE Questions.</li><li>Allot at least 2 Hr. for numerical treatment.</li></ul>
1MEPC351	Turbo Machinery Laboratory	No suggestions
1MEPC352	Heat and Mass Transfer Laboratory	No suggestions
1MEPC353	Design of Machine Elements –II Laboratory	<ul style="list-style-type: none"><li>Syllabus is heavy for 2 hrs/week if possible, go for 4hrs/week.</li><li>Teach kinematic design for multi speed Gear box.</li></ul>
1MEPC354	Industrial Hydraulics and Pneumatics Laboratory	No suggestions
1MEPC355	CAM Laboratory	<ul style="list-style-type: none"><li>Add Industrial visit.</li><li>Use a free source CAM software or purchase a license copy.</li></ul>
		<ul style="list-style-type: none"><li></li></ul>

The detailed suggestions for different courses are summarized below:

**Third Year B. Tech (170 Credits)**

**SEMESTER-VI**

Course Code	Course	Suggestions given
1MEES308	Operation Research	No suggestions
1MEPC309	Refrigeration & Air Conditioning	<ul style="list-style-type: none"><li>Refer standard charts while designing duct</li></ul>
1MEPC310	Noise and Vibration	<ul style="list-style-type: none"><li>Add impact of noise on environment and human body in unit.6</li></ul>



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Course Code	Course	Suggestions given
		<ul style="list-style-type: none"><li>• Remove numerical part like Holzer method</li><li>• Go for cantilever beam like examples</li><li>• Reduce syllabus</li></ul>
1MEPC311	Mechatronics and Robotics	<ul style="list-style-type: none"><li>• Add modern controllers like Arduino, Raspberry pi</li><li>• Interfacing of sensors to above controllers</li><li>• In unit 4 remove MEMS</li></ul>
1MEPE312	I C Engine	<ul style="list-style-type: none"><li>• Focus on basic concepts of I. C. Engine rather than numerical.</li><li>• Suggested to give more emphasis on electrical vehicle.</li></ul>
1MEPE313	Machine Tool Design	<ul style="list-style-type: none"><li>• Unit no.2 need to be modified for gear box design</li></ul>
1MEPE314	Advanced Manufacturing Technology	<ul style="list-style-type: none"><li>• Give more weightage to additive manufacturing by dividing into 2 topics instead of 1.</li><li>• Increase the content of Unit 6. (Composite Materials) and increase the teaching hours.</li><li>• Add implementation of G &amp; M code in manufacturing a part on rapid prototyping machine.</li><li>• If possible, combine second and third unit; avoid repetition of the content covered in manufacturing processes in Second Year B.Tech.</li><li>• Reduce the content of unit 5. Welding Technology.</li></ul>
1MEPC356	Refrigeration & Air Conditioning Laboratory	No suggestions
1MEPC357	Noise and Vibration Laboratory	<ul style="list-style-type: none"><li>• Add shaft alignment experiment</li><li>• Take any 8 experiments from the list</li></ul>
1MEPC358	Mechatronics & Robotics Laboratory	<ul style="list-style-type: none"><li>• Change the title of last experiment like study of robotic programming</li></ul>
1MEPE359	I C Engine Laboratory	No suggestions
1MEPE360	Machine Tool Design Laboratory	<ul style="list-style-type: none"><li>• Detailed content required for case study no. 1</li><li>• Use title like design of bed for lathe machine/milling machine etc.</li><li>• Think about design of multi speed gear box</li></ul>





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MEPE361	Advanced Manufacturing Technology Laboratory	<ul style="list-style-type: none"><li>• Use industrial visit word in 8<sup>th</sup> experiment.</li><li>• Make a student group and give separate problems to each group.</li><li>• Calculate theoretical strength of polymer composites and also validate it on tensile testing machine.</li><li>• Plan the content to be delivered in 10-12 weeks.</li></ul>
IMEPR362	Hands on Training/Internship/ Mini Project/ Certification Course	<ul style="list-style-type: none"><li>• Reduce batch size for 4 to 5 students</li></ul>
<ul style="list-style-type: none"><li>• <b>Extra comment:</b> Add Innovation and design thinking course separately in curriculum</li></ul>		

*Sudhar*  
15/02/2021  
**Prepared By**  
**BOS Meeting In charge**



*[Signature]*  
**Approved by**  
**H.O.D**  
**Mechanical Engineering**