Annasaheb Dange College of Engineering and Technology, Ashta

An Autonomous Institute, Affiliated to Shivaji University, Kolhapur

13th BOS MEET

BOS Meeting: Second Year B. Tech to Final Year B. Tech. Curriculum Structure Revision 3 **Second-Year B. Tech. and M.Tech. Detailed Curriculum.**

Day & Date – Saturday 11th April, 2026

DEPARTMENT OF MECHANICAL ENGINEERING

Dange College of Engg. & Tech. ASHTA 416 301 Dist. Sangli

Sant Dnyaneshwar Shikshan Sanstha's

Annasaheb Dange College of Engineering and Technology

Ashta, (District: Sangli)

Department of Mechanical Engineering

BOS: MINUTES OF MEETING

Date: 11th April, 2026

13th BOS Meeting Report and Minutes

Day & Date – Saturday 11th April, 2026

Mode: Offline

Time: 10.30 am to 02.00 pm

Members Present for the Meet

Sr. No	Name of Expert	Designation	Sr. No	Name of Expert	Designation
1	Dr. M. M. Jadhav	Chairman (HoD)	20	Dr. S. V. Patil	Member
2	Dr. R. G. Desavale	VC Nominee	21	Dr. K. I. Nargatti	Member
3	Dr. S. H. Sawant	Academic Expert-1	22	Dr. S.V. Nishandar	Member
4	Dr. S. S. Mohite	Academic Expert-2	23	Dr. A. G. Sanadi	Member
5	Mr. Abhijeet. A. Patil	Alumni Representative	24	Mr. A. R. Mane	Member
6	Mr. Anil A. Kute	Industry Representative	25	Mr. Y. P. Ballal	Member
7	Mr. Sanjay D. Pendase	Industry Representative	26	Mr. G. N. Rakate	Member
8	Dr. S. S. Ahankari	Expert for Special Courses	27	Mr. G. B. Pawar	Member
9	Dr. A. G. Kamble	Expert for Special Courses	28	Mr. H. H. Patil	Member
10	Dr. L. Y. Waghmode	Director	29	Mr. P. V. Mali	Member
11	Dr. S. P. Chavan	Member	30	Mr. G. M. Chendke	Member
12	Dr. P. D. Kulkarni	Member	31	Mr. S. T. Ghutukade	Member
13	Dr. A. A. Jadhav	Member	32	Mr. P. B. Patil	Member
14	Dr. A. R. Kadam	Member	33	Mr. A. G. Koparde	Member
15	Mr. A. M. Pirjade	Member	34	Mr. T. V. Kadam	Member
16	Mr. K .J. Burle	Member	35	Mr. A. S. Patil	Member
17	Dr. P. B. Gavali	BOS Secretary	36	Dr. Manoj H. Mota	Interdepartmental Invited Member
18	Dr. P. P. Gavade	Member	37	Dr. S. Yuvaraj	Interdepartmental Invited Member
19	Dr. R. R. Gaji	Member			

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Agenda of the Meet

Sr. No.	Time	Particulars
1.	10.00 am to 10.05 am	Welcome
2.	10.05 am to 10.15 am	Introduction of BOS Committee Members.
3.	10.15 am to 10.25 am	Felicitation of BOS Members.
4.	10.25 am to 10.35 am	To confirm the minutes of 12th BOS meeting.
5.	10.35 am to 10.45 am	To note the action taken report on the decisions taken during 12th BOS meeting.
6.	10.45 am to 10.55 am	Discussion on Department Achievements.
7.	10.55 am to 11.00 am	Discussion on Vision and Mission of Department.
8.	11.00 am to 11.10 am	Discussion on Feedback from stakeholders on curriculum.
9.	11.10 am to 12.30 pm	Discussion on Second Year to Final Year B. Tech. Structure of **Revision 03** as per NEP guidelines and detailed Curriculum of Second Year B. Tech.
10.	12.30 pm to 12.45 pm	Discussion on Professional Elective Tracks offered for students.
11.	12.45 pm to 1.00 pm	Discussion on Multidisciplinary Minor (MDM) Courses.
12.	1.00 pm to 1.10 pm	Discussion on Honor and Minor Status of Department.
13.	1.10 pm to 1.20 pm	Discussion on M. Tech Second Year Curriculum.
14.	1.20 pm to 1.25 pm	Discussion on Panel of Examiners for UG and PG.
15.	1.25 pm to 1.30 pm	Vote of Thanks.

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Minutes of Meeting

1. Dr. M. M. Jadhav, Chairman of the Board of Studies (BoS) and Head of the Mechanical Engineering Department, chaired the meeting. Dr. K. I. Nargatti welcomed and introduced all the members of the Board of Studies and the faculty members of the Mechanical Engineering Department for the 13th BoS meeting, which was conducted in hybrid mode.
2. Dr. M. M. Jadhav discussed the revision of the Institute's Vision and Mission statements, as well as the Department's Vision, Mission, Program Educational Objectives (PEOs), and Program Specific Outcomes (PSOs).
3. Dr. M. M. Jadhav provided a brief overview of the department, highlighting its journey from establishment to its present status.
4. Dr. P. B. Gavali, BoS Secretary of the Department, presented the minutes of the previous (12th) BoS meeting, including the suggestions received and the corresponding Action Taken Report (ATR), which were confirmed by the BoS experts. He also provided a brief overview of stakeholder feedback received for the revision of the second curriculum.
5. The revised curriculum has been developed based on feedback from students, alumni, and industry experts. A detailed gap analysis was conducted to align the curriculum with industry requirements and emerging technologies. Course Outcomes (COs), Program Outcomes (POs), and Program Specific Outcomes (PSOs) have been defined as per NBA guidelines and mapped using measurable performance indicators. Assessment methods, including direct and indirect tools, have been designed to evaluate CO attainment. The curriculum also integrates skill development, industry exposure, self-learning, and research-oriented activities to enhance employability and lifelong learning.

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6. Dr. S. H. Sawant congratulated Dr. M. M. Jadhav and the Mechanical Engineering team for their efforts in securing industry-sponsored projects and for their initiative in developing policies for departmental newsletters and magazine publications.
7. Dr. P. B. Gavali presented an overview of the approved First-Year curriculum, which has been developed in accordance with the guidelines prescribed by the Institute, AICTE, UGC, and NEP.
8. Dr. P. B. Gavali presented the curricula of all Second-Year B.Tech. and First-Year M.Tech. courses proposed to be offered during the academic year 2026–27.
9. The curricula of First-Year B.Tech., Second-Year B.Tech., and First-Year M.Tech. programs were revised based on the suggestions received.
10. Dr. P. B. Gavali briefed the members on the inclusion of the Innovation and Prototype Development course in the Second-Year, Fourth-Semester curriculum.
11. It was proposed and approved that the Design Thinking and IDEA Lab courses be interchanged between the First and Second Semesters, respectively. Additionally, the Course Outcomes (COs) and course content of Engineering Graphics and Applied Mechanics were reviewed and updated to align with the revised curriculum requirements.
12. The evaluation scheme for the Internship course for Final-Year B.Tech. and Second-Year M.Tech. students was revised.
13. The evaluation scheme for the Self-Study course for Final-Year B.Tech. and Second-Year M.Tech. students was revised.
14. Dr. M. M. Jadhav provided insights into the integration of Artificial Intelligence (AI) across various courses in the curriculum.
15. Dr. M. M. Jadhav presented the status of the Honors and Double Minor programs offered by the department.
16. Dr. P. B. Gavali discussed the Multidisciplinary Minor (MDM) courses offered to students from other departments.
17. Dr. P. B. Gavali presented the CO–PO mapping matrices and attainment methodologies.

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18. Discussions were held regarding assessment methods, including in-semester examinations, assignments, quizzes, laboratory evaluations, projects, complex engineering problems, and end-semester examinations. Their alignment with Course Outcomes (COs) was reviewed to ensure effective attainment measurement.
19. Dr. R. G. Desavale recommended renaming the track as "Industrial Robotics."
20. Dr. R. G. Desavale and Mr. A. A. Patil emphasized that the syllabus of the Research Methodology course should be designed considering the knowledge level and requirements of second-year students. Dr. R. G. Desavale further suggested including one exercise in each module.
21. Dr. S. H. Sawant and Dr. R. G. Desavale instructed that the course objectives, Course Outcomes (COs), and CO–PO mappings be revisited and revised to ensure alignment with the theory and laboratory content. They also emphasized adherence to Bloom's Taxonomy verbs and levels.
22. Dr. R. G. Desavale suggested including the phrase "An Empowered Autonomous Institute – Permanently Affiliated to Shivaji University, Kolhapur" in all future presentations.
23. Dr. S. H. Sawant suggested utilizing additional learning platforms, apart from NPTEL, to support student self-learning. He further recommended preparing appropriate content and conducting examinations using question papers set by faculty members from other institutions.
24. Dr. R. G. Desavale instructed that self-study content be formally incorporated into the syllabus, along with clearly defined Course Outcomes (COs) and assessment methods. He also recommended that the concerned faculty prepare detailed solutions to ensure effective implementation and evaluation.
25. Dr. S. H. Sawant and Dr. R. G. Desavale raised queries regarding the Honors and Honors with Research programs. They recommended introducing specialized, advanced-level courses through a separate academic track.
26. Dr. S. H. Sawant instructed that performance indicators, as per AICTE guidelines, be incorporated for higher levels of CO–PO mapping.

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27. Dr. R. G. Desavale suggested incorporating Course Outcomes (COs), performance indicators, and competencies in every module of all courses. He also recommended referring to the curricula of other institutes wherever appropriate.
28. Dr. S. H. Sawant suggested setting CO levels as follows: Levels 1–3 for Second Year, Levels 2–4 for Third Year, and Levels 4–6 for Final Year. He also emphasized maintaining proper formatting of textbooks and references and recommended using the term "Module" instead of "Unit."
29. Dr. S. H. Sawant further suggested maintaining a common title such as "List of Experiments" or "List of Tutorials" for laboratory and tutorial courses. He also recommended incorporating AI- and IoT-based experiments wherever feasible.
30. Dr. S. H. Sawant and Mr. S. D. Pendase suggested incorporating hands-on experiments involving the assembly and disassembly of machine components, including measurement and determination of suitable tolerances and fits. They further recommended preparing detailed part and assembly drawings based on these activities.
31. Dr. S. H. Sawant emphasized incorporating idea-based problem statements in the Innovation and Prototype Development course so that they can progressively evolve into complex engineering problems and be addressed through student projects.
32. Dr. R. G. Desavale and Dr. A. G. Kamble suggested incorporating foreign or modern language courses into the curriculum, such as Japanese, German, or Chinese.
33. Dr. S. H. Sawant and Dr. R. G. Desavale emphasized that patents should preferably be filed as utility patents rather than design patents, as only utility patents are considered for evaluation under NBA and NIRF criteria.
34. Dr. M. M. Jadhav discussed the examiner panels for undergraduate and postgraduate courses.
35. Dr. M. M. Jadhav concluded the meeting by expressing his gratitude and proposing a vote of thanks to all BoS members for their valuable suggestions and guidance.

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Suggestions given during Meeting

Sr.	Course Name	Expert's Suggestions
	General	Revise the CO statements for all courses
01	Fluid Mechanics	Dr. S. H. Sawant – Change the verb obtain, it's not feasible as a CO
02	Material Science and Metallurgy	Dr. A. G. Kamble - Procure the equipment for the metallurgical study for etching and polishing
03	Differential and Transform Methods for Engineers	Dr. S. H. Sawant - Change the verbs as per the NBA guidelines; limit them to 4–5. Change the course name to Mathematics - III
04	Kinematics of Machines	Dr. R. G. Desavale – Remove the belt and try to cover it in FY; avoid the repetition of content from FY Dr. S. H. Sawant – Instead of Chapter 3, add a new chapter; try to cover it in FY; combine power transmission devices Dr. S. S. Mohite – For Cam profile, add the programming content
05	Applied Thermodynamics	Dr. R. G. Desavale – Define the references in the same way. Use a list of experiments Use both the code and name for prerequisites Dr. S. H. Sawant – Change the course name to Engineering Thermodynamics, Change the template for the Tutorials – Use either unit or module but keep it same For Experiment - If it starts with 'To', it is an AIM; convert it into a proper title. Make the lab manuals as per the common format For virtual lab - Some content from the lab should be added as self-learning
06	Strength of Materials	Dr. R. G. Desavale - Change the name to Mechanics of Solids, Provide the solution for the self-learning content Mr. S. D. Pendase - Remove '2D' from the bracket in Unit 2
07	Machine Drawing Laboratory	Dr. S. H. Sawant – Add the dis-assembly and then prepare the assembly drawing Mr. A. A. Patil - Add the stack-up analysis in the content Mr. S. D. Pendase - Add GD&T in detail; add basic information about GD&T as per its application to core engineering
08	Microcontroller Laboratory	Dr. R. G. Desavale - Try to introduce the course as Industrial Electronics with lectures
09	Python Programming Laboratory	Mr. A. A. Patil - If possible, introduce the lectures.

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12	Aptitude and Reasoning Part-I	Mr. S. D. Pendase – Entrepreneurship, Communications, Presentation students must be improved
13	Manufacturing Processes and Machine Tools	Mr. A. A. Patil – Forming content is underrepresented and cutting-related content is more; try to improve the forming-related machining content. Advanced joining processes must be included in the content Mr. S. D. Pendase – Students must understand the basics of machining, lathe machines, and milling machines
14	Dynamics of Machines	Dr. S. S. Mohite - Please incorporate AI technologies—including machine learning (ML), neural networks, and adaptive control systems—which are used to analyze complex vibration data, detect imbalances, and determine precise correction weights, reducing downtime and enhancing machinery lifespan.
19	CAD Laboratory	Mr. A. A. Patil- Add the stack – up analysis in the course Dr. A. G. Kamble –Reverse Engineering can be implemented for the assembly design
21	Research Methodology	Dr. R. G. Desavale – Define the exercise at the end of each unit as ISE component. Cover paper reading and how to write research gap. Add group exercise after each unit.
25	Measurement and Metrology	Dr. R. G. Desavale & Mr. S. D. Pendase - Make it Measurement and Quality Control

Common suggestions:

1. Dr. S.H. Sawant - Instead of NPTEL use other platforms and conduct exams through the college.
2. Dr. R. G. Desavale - Add course objectives, add the indicators mapped for each unit in the syllabus copy. Write prerequisite course name.
3. Dr. R. G. Desavale - All the labs must have python for calculation.
4. Dr. A. G. Kamble – Take the presentation and report for the course floated through the NPTEL. As passing exam in the and maintaining the NPTEL timeline
5. Dr. S. H. Sawant- Add 2 tracks for design. Developed experimental setups can be converted into the Virtual Lab with manual preparation

Prepared By
Member Secretary-BoS

Approved by
Chairman -BoS