



BOS Meeting Report

(Date 15th July, 2017)

BOS members

- **Dr. S. S. Ahankari**
Chairman BOS meeting, HOD- MechEngg. Dept
- **Dr. Prashant Kumar**
Emeritus professor, DeptOf Mechanical Engg, COEP, Pune
- **Dr. S. P.Chavan**
Professor, DeptOf Mechanical Engg, WCE, Sangli
- **Dr. V. D. Shinde**
Professor, DeptOf Mechanical Engg, DKTE, Ichalkaranji
- **Mr. Bhalchandra Joshi**
Director, JoshiJampalaEnggPvt Ltd, Satara
- **Mr.RameshGavade**
Manager, Design Dept, KBL, Kirloskarwadi
- **Mr.GaneshNikam**
Product Manager, Forbes Marshal, Pune
- **Mr.NitinZanvar**
Managing Director, Zanvar group of Industries, Ashta
- **Dr. S.S. Mohite**
Professor, DeptOf Mechanical Engg, GCE, Karad



A) Agenda of Meeting:

1. Autonomy
2. BOS meeting
3. Department activities
4. Formation of curriculum structure
5. Discussion on first year courses syllabus, and M.Tech design syllabus
6. Discussion on Sem III to Sem VIII structure

B) Points Elucidated

Dr. S. S. Ahankari Chairman of BOS meeting presented curriculum structure of Mechanical engineering program. The points explained are:

1. Numbering of course code
2. Computer programming course in first year
3. Workshop I and II combined as workshop I
4. Environmental science for engineers(Audit course) is included in Sem III
5. In continuation of computer programming of first year, computer programming C++ is included in Sem III
6. MATLAB is included in applied numerical method lab
7. Machine drawing theory course is added in Sem III
8. General proficiency course(Audit course) is added in Sem III
9. Domain wise professional electives are floated from Sem V

Professional Elective-I

OMEPE306- Mechanics of Solids	Advanced	OMEPE307- Advanced Foundry Technology	OMEPE308- Fluid Dynamics
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10. Mechatronics is added in Sem VI , so that students can use the knowledge for project in final year
11. Domain wise professional electives II will be continued in Sem VI



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Professional Elective-II		
0MEPE313 -FEA	0MEPE314 -Advanced Manufacturing Technology	0MEPE315 -CFD
Professional Elective-II Lab		
0MEPE361 - FEA	0MEPE362 - Advanced Manufacturing Technology	0MEPE363 - CFD

12. Human values and professional ethics course is added in Sem VI

13. Research methodology is added in Sem VII

14. Domain wise professional electives III and IV will be continued and open elective are floated in Sem VII

Professional Elective-III		
0MEPE403- Mechanical System Design	0MEPE404- Advanced Welding Engg.	0MEPE405- Design of thermal System & Optimization
Professional Elective-IV		
0MEPE406- Noise and Vibration	0MEPE407- NDT	0MEPE408- Steam Engineering
Professional Elective-IV Lab		
0MEPE453- Noise and Vibration	0MEPE454 - NDT	0MEPE455- Steam Engineering
Open Elective		
0MEOE409- IMOR	0MEOE410- Ind. Automation & Robotics	0MEOE411- Mechanics of Fibrous Composites



MOM & report on BOS meeting

Mechanical Engineering department was introduced to all the BOS members by Dr. S.S.Ahankari.

The BOS members suggested to ponder over following issues:

1. Humanity courses can be floated in curriculum
2. Emphasis to be given for creative thinking & product design
3. Curriculum should also give scope for self learning
4. Credit count is more
5. Employability in mechanical engineering students.
6. Robust mechanism has to be found out for student's interest in specific domain
7. Courses like decision making, stress management, standards, problem solving, IPR, energy conservation are not the part of curriculum.
8. Many suggestions were given in different courses like course titles, contents, contact hours, electives, course position in semester, etc.
9. Motivation needed for students to participate in conferences, symposiums, national-international competitions, etc.



Comments from BOS members (UG):

Dr. S.P. Chavan:

1. Add more no. of electives
2. FEA should be compulsory course, rather than elective.
3. Position of course IHP & ICE to be changed to VI & VII semester respectively.
4. Add automobile engineering & Industry management as an elective courses.
5. Engineering graphics practical's to have for 50 marks.

M.Bhalchandra Joshi

1. Appreciated for environmental science initiative.
2. In order to increase Employability of mechanical engineering students occupation focused structure should be emphasized on.
3. Courses like economics, humanity needs to be focused on.
4. Students should realize the importance of time management, attention to & importance of work, professional ethics, production management, line charts.

Mr. V.D.Shinde

1. Too much heavy structure in semester VII of 6 theory courses.
2. Too much credits 192, reduction of credits need to be thought over.
3. Need to change the position of Metallurgy & MTP to be changed to IV & III semester respectively.
4. Add Research methodology as an open elective.

Mr. Nitin Zanvar

1. More skill is to be imparted to students.
2. Hands on practice wherever possible is required.



Mr. Ramesh Gawade

1. Some drafting softwares like AutoCad, Pro-e, CATIA, Solid edge, Solid works&& Analysis softwares like Ansys for seismic analysis, structural analysis CFD analysis can be incorporated in curriculum
2. Tooling design & tool engineering can be added as an elective.
3. Technical training is to be given to students by Industry or Institute.
4. Students have to be made aware about Industry standards.
5. Industrial visits are to be conducted.
6. Emphasize on Foundry, 3D printing, rapid prototyping, machine shop, NDT etc.

Mr. Ganeshprasad Nikam

1. Appreciated to have professional communication being added in the curriculum.
2. Need mechanism to find out for student's interest in specific domain
3. FEA & CFD & solar technology can be kept as core courses
4. Energy conservation is not reflecting anywhere so need to be added
5. Courses like decision making, stress management, problem solving techniques need to be added.



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Major changes suggested by BOS members for UG courses

1. FEA should be compulsory course, rather than elective.
2. Position of course IHP & ICE to be changed to VI & VII semester respectively.
3. Add automobile engineering & Industry management as an elective courses.
4. Need to change the position of Metallurgy & MTP to be changed to IV & III semester respectively
5. FEA & CFD & solar technology can be kept as core courses

General comments about First Year courses

Engineering Graphics:

Sr. no.	Existing content	Suggested Modification
1	Unit 2 Projection of lines & planes, 9 hrs are given in course structure	Contact hours can be increased to 10 hrs.
2	Unit 3 Projection of solids 06 hours are allotted in current course	Contact hours can be reduced to 5 hours.

Basic Mechanical Engineering:

Sr. no.	Suggested Modification
1	General materials used in industry must be included in Unit 6.
2	No need of VCR & VAR in Unit 4, instead applications of it can be incorporated

Immediate actions taken

1. FEA course made compulsory
2. Position of IHP & ICE courses is changed
3. Position of Metallurgy & MTP courses is changed
4. In Engg. Graphics contact hours of Unit 2 are increased to 10 hrs.
5. In Engg. Graphics contact hours of Unit 3 are reduced to 05 hrs.
6. General materials used in industry are added in Basic Mechanical Engineering.



M. Tech Mechanical Design Engineering

Suggestions

Semester I

1. Make Reliability Engineering as elective course instead of compulsory.
2. In the course Advanced Mechanics of Solid (503), revise the course contents & modify Unit 1 title.
3. Keep 'Process Equipment Design' as compulsory course. It is because of the fact that almost all industries make use of various types of pressure vessels, storage tanks, water and steam pipes lines, hydraulic and pneumatic actuators, heat exchangers etc. The designs of all such parts are covered in this course.
4. Add Overhead cranes, winches in the course Material Handling & Equipment Design.
5. For the courses Material Handling & Equipment Design & Process Equipment Design – contents of material can be added as Mechanics of Composites is elective course.
6. Two courses - Advanced Modelling & Simulation techniques (508), Mathematical Modelling & Simulation (511) both seems same.

Instead of these two courses - keep only one course as 'Advanced Mathematics and Computation'.

7. Instead of Professional Ethics and Values, keep non-credit Research Methodology.
8. Refer the table for the course 'Advance Design Engineering' - Unit 5 should be modified.

Sr. no.	Existing contents	Suggested Modifications
1	Design for Materials and Processes: a) Design for brittle fracture, Design for fatigue failure, Design for different machining process, assembly & safety etc. b) Cams Basic curves, cam size determination, calculating cam profiles, advance curves, polydyne cams,	<ol style="list-style-type: none">1. Most part of it is covered in UG.2. Include advanced design techniques can be added.3. No. of hours can be increased.