

**Dr. Babasaheb Ambedkar Technological University Lonere**  
**Department of Mechanical Engineering**  
**Board of Studies**  
**Minutes of Meeting-2**

Date: March 24, 2017

The second meeting of BoS was held on March 24, 2017 at 11.00 am at DBATU Lonere. Following members attended the meeting:

1. Dr. M. Sadaiah, Chairman
2. Mr. Anand Chapekar, Member
3. Dr. M. S. Tandale, Member
4. Dr. V. G. Sargade, Member

Following members could not attend the meeting:

1. Dr. V.K. Suri
2. Dr. M.S. Kale
3. Shri R.P. Javale

Following points were discussed:

**Item No. 1 To approve the structure and syllabus for B. Tech. programme in Mechanical Engineering**

- The structure and syllabus for all the courses in the Second, Third, and Final year B. Tech. programme in Mechanical Engineering (*Annexure-I*) including COs and their mapping with POs were put up for the approval of BoS.
- BoS approved the same and recommended for the final approval of the Academic Council of the University.

**Item No. 2 To approve the structure and syllabus for M. Tech. programmes in Manufacturing Engineering and Thermal & Fluids Engineering**

- The structure and syllabus for all the courses in the First and Second year M. Tech. programme in Manufacturing Engineering (*Annexure-II*) and M. Tech. programme in Thermal & Fluids Engineering (*Annexure-III*) including COs and their mapping with POs were put up for the approval of BoS.
- BoS approved the same and recommended for the final approval of the Academic Council of the University.

Dr. Babasaheb Ambedkar Technological University  
Lonere  
Department of Mechanical Engineering  
Board of Studies



**Item No. 3 To approve the structure and syllabus for UG programmes in allied branches**

- The structures for B. Tech. programmes in Automobile Engineering and Production Engineering were presented.
- It was decided that the expert members in the respective disciplines should be coopted and with their help the structure and syllabi for all the allied branches should be finalized.

**Item No. 4 To co-opt additional members**

- It was decided to co-opt the following members from academia and industry to finalize the structure and syllabi for all the allied branches:

Sr. No.	Programme	Member from Academia	Member from Industry/Research Organization
1	B. Tech. in Production Engg.	Dr. R. S. Pawade, DBATU	Mr. Ram Deshpande, Senior General Manager & Head, Engineering and R&D, KSPG Automotive, Pune
2.	B. Tech. in Automobile Engg.	Prof. S. G. Pawar, Adjunct Professor in Automobile Engg., CoE, Pune	1. Mr. V. S. Gogate, Pune 2. Prof. K. P. Wani, ARAI Pune
3.	M. Tech. in Design Engg.	Dr. H. N. Warhatkar, DBATU	---

**Item No. 5 Any other point**

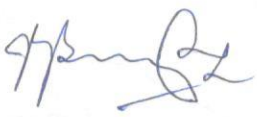
- To suggest amendments in the structure and syllabi of the First year B. Tech. Programmes:

It is noticed that the Laboratory courses are not shown separately in the structure of the first year B Tech Programmes. Also, the COs and their mapping with POs of the respective programmes are not available for any course. Hence, it was decided to suggest the amendments to be made in the existing syllabi of the First year B. Tech. Programmes.

BoS recommended these amendments for the final approval of the Academic Council of the University.

The next meeting of the BoS will be held on April 7, 2017 at DBATU Lonere.

The meeting ended with thanks to the Chair.

  
Dr. V. G. Sarigade  
Member secretary

  
Dr. Sadaiah Mudigonda  
Head  
Department of Mechanical Engineering  
Dr. Babasaheb Ambedkar Technological University  
Lonere, Tal. Mangaon, Dist. Raigad 402102, Maharashtra

**Dr. Babasaheb Ambedkar Technological University Lonere**  
**Department of Mechanical Engineering**  
**Board of Studies**  
**Minutes of Meeting-4**

Date: May 3, 2018

The fourth meeting of BoS was held on May 3, 2018 at 11.00 am in the Conference Hall of DBATU Lonere. Following members attended the meeting:

1. Dr. M. Sadaiah, Chairman
2. Mr. Anand Chapekar, Member
3. Dr. M. S. Tandale, Member
4. Dr. V. G. Sargade, Member
5. Prof. R. S. Pawade, Co-opted Member
6. Prof. H. N. Warhatkar, Co-opted Member
7. Dr. Sanjeev Suryawanshi, Invitee
8. Mr. Aninash V. Patil, Invitee
9. Dr. H. A. Mandave, Invitee
10. Mr. V.L. Mundhe, Invitee
11. Dr. S. V. Lahane, Invitee
12. Mr. Prakash G. Taur, Invitee
13. Dr. P. U. Zine, Invitee

Following members could not attend the meeting:

1. Dr. V.K. Suri
2. Dr. M.S. Kale
3. Shri R.P. Javale

Following points were discussed:

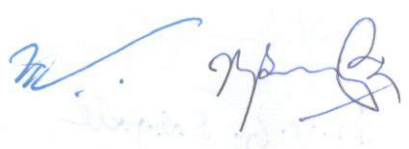
**Item No. 1 To finalize the course structures for the following U.G. Programmes**

- i. B. Tech. Mechanical Engineering
- ii. B. Tech. Production Engineering
- iii. B. Tech. Automobile Engineering

The course structures for the U.G. programmes viz. B. Tech. Mechanical Engineering (*Annexure-I*), B. Tech. Production Engineering (*Annexure-II*), and B. Tech. Automobile Engineering (*Annexure-III*), were put up for the approval of BoS.

BoS approved the same and recommended for the final approval of the Academic Council of the University.

Dr. Babasaheb Ambedkar Technological University  
Lonere  
Department of Mechanical Engineering  
Board of Studies





**Item No. 2 To approve the syllabi for the first and second year courses of the following B. Tech. programmes:**

- a. B. Tech. Mechanical Engineering
- b. B. Tech. Production Engineering
- c. B. Tech. Automobile Engineering

The syllabi for all the courses in the First and Second year B. Tech. programmes in Mechanical Engineering (*Annexure-IV*), Production Engineering (*Annexure-V*), and Automobile Engineering (*Annexure-VI*), were put up for the approval of BoS.

BoS approved the same and recommended for the final approval of the Academic Council of the University.

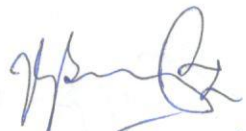
**Item No. 3 To approve minor changes in the curriculum of M. Tech. programmes**

- The course structures and syllabi for following Thermal Engineering related P.G. Programmes (*Annexure-VII*) were combined and made uniform:
  - a. M. Tech. Thermal Engg.
  - b. M. Tech. Thermal and Fluids Engg.
  - c. M. Tech. Heat Power Engg
  - d. M. Tech. Thermal and Heat Power Engg
- The course structures and syllabi for following Manufacturing Engineering related P.G. Programmes (*Annexure-VIII*) were combined and made uniform:
  - a. M. Tech. Manufacturing Engg.
  - b. M. Tech. Manufacturing Engg. Processes
  - c. M. Tech. Manufacturing Process Engg.
  - d. M. Tech. Mechanical Production Engg
- The elective courses were divided into four different groups as Electives-I & II (Semester-I) and Electives-III & IV (Semester-II)
- The number of elective courses was reduced in each group.
- The course codes were updated appropriately.

The revised course structures of remaining P. G. programmes viz. M. Tech. in Design Engg. (*Annexure-IX*), M. Tech. in CAD/CAM (*Annexure-X*), M. Tech. in Automation Engg. (*Annexure XI*), M. Tech. in Computer-aided Analysis and Design (*Annexure-XII*), and M. Tech. in Mechanical Engineering (*Annexure XIII*) along with the M. Tech. programmes under Thermal and Manufacturing Engineering were put up for the approval of BoS.

BoS approved the same and recommended for the final approval of the Academic Council of the University.

The meeting ended with thanks to the Chair.

  
Dr. V. G. Sargade  
Member Secretary

  
Dr. Sadaiah Mudigonda  
Head  
Department of Mechanical Engineering  
Dr. Babasaheb Ambedkar Technological University  
Lonere, Tal. Mangaon, Dist. Raigad 402103, Maharashtra

**Dr. Babasaheb Ambedkar Technological University Lonere**  
**Department of Mechanical Engineering**  
**Board of Studies**  
**Minutes of Meeting-1**

Date: September 27, 2018

The first meeting of BoS was held on September 27, 2018 at 11.00 am in the Conference Hall of DBATU Lonere. Following members attended the meeting:

1. Dr. M. Sadaiah, Chairman
2. Dr. V. G. Sargade, Member
3. Dr. A Kumaraswamy, Member
4. Dr. A. N. Chapgaon, Member
5. Dr. P. B. Maheshwary, Member

Following persons were nominated as invitees and also attended the meeting:

1. Dr. Rahul Barjibhe, Invitee
2. Dr. Sanjeev Suryawanshi, Invitee

Following person nominated as invitee but could not attend the meeting and leave of absence was granted:

1. Dr. R. D. Patil

Following points were discussed and decisions were taken:

**Item No. 1 To prepare the list of Chairman and Paper setters for each course in the following U.G. and P.G. Programmes for the first and second year.**

- i. B. Tech. Mechanical Engineering
- ii. B. Tech. Production Engineering
- iii. B. Tech. Automobile Engineering
- iv. M. Tech. programmes in Manufacturing Engg, Design Engg., CAD/CAM, Thermal Engg. groups

A committee of following members was constituted for this purpose:

- Dr. M. Sadaiah, Chairman of BoS
- Dr. V. G. Sargade
- Dr. P. B. Maheshwary

The list of Chairman and Paper Setters, Moderators, and Evaluators for the above U.G. programmes (*Annexure-I*), and P.G. programmes (*Annexure-II*), was put up for the finalization by BoS.



BoS finalized the same and recommended for the approval of the Board of Examinations of the University.

**Item No. 2 To nominate one representative of BoS on the Board of Examinations (BoE):**

Dr. V. G. Sargade was recommended by BoS in Mechanical/Production/Automobile Engineering to be considered for the nomination on BoE.

**Item No. 3 To review the University Ordinances for providing suggestions**

It was decided that all the members and invitees will study the Ordinances and come up with suggestions in the next meeting.

**Item No. 4 To finalize the course code and credits for Ph D courses**

- Research Methodology: Course Code: PH RM 001, No. of Credits: 3
- PhD Seminar: Course Code: PH 00 2S, No. of Credits: 4

BoS approved the above course codes and credits.


**Item No. 5 To recommend a Textbook written by Dr R. S. Pawade on "Energy and Environmental Engineering" Synergy Publications**

It was suggested that the Textbook may please be placed before the BoS in the next meeting for the consideration. A complimentary copy of the book should be sent to all the members so that they can go through the contents and take the final decision.

**Item No. 6 To discuss about the Teacher-Students-Examiner Manual**

The members discussed the contents of the proposed Teacher-Students-Examiner Manual and it was opined that the same may be recommended for the further approval. It was suggested that there should also include Course Outcomes and Programme Outcomes. Moreover, it should be modified every year by incorporating the suggestions received from the teachers.

The meeting ended with thanks to the Chair.

  
Dr. V. G. Sargade  
Member Secretary

  
27/09/2018  
Dr. Sadaiah Mudigonda  
Head  
Department of Mechanical Engineering  
Dr. Babasaheb Ambedkar Technological University  
Lonere, Tal. Mangaon, Dist. Raigad 401003, Maharashtra

**Dr. Babasaheb Ambedkar Technological University Lonere**  
**Department of Mechanical Engineering**  
**Board of Studies**  
**Minutes of Meeting-2**

Date: February 4, 2019

The second meeting of BoS was held on February 4, 2019 at 11.30 am in the office of Vice-Chancellor of DBATU Lonere.

Following members attended the meeting:

1. Dr. M. Sadaiah, Chairman
2. Dr. V. G. Sargade, Member
3. Dr. A Kumaraswamy, Member
4. Dr. A. N. Chapgaon, Member

Following invitees attended the meeting:

1. Dr. Rahul Barjibhe, Invitee
2. Dr. Sanjeev Suryawanshi, Invitee
3. Dr. Dilip Pangavhane, Invitee
4. Dr. R. D. Patil, Invitee

Following member could not attend the meeting and leave of absence was granted:

1. Dr. P. B. Maheshwary, Member

Following points were discussed and decisions were taken:

**Item No. 1 To recommend the curriculum of first and second year B. Tech. Programs  
(for all four semesters) in its final form**

The curriculum of the first and second year B. Tech. programs in Mechanical Engg., Production Engg., and Automobile Engg. was already approved and is in force.

However, following points were brought to the notice:

- In the second semester, there is a course called Mini Project. The detailed guidelines for this course are not available. Hence, it was resolved that following guidelines should be followed for this course:
  - There should be a group of 2 – 3 students in one Mini Project.
  - Students should make a working model of a small engineering device and demonstrate its functioning.
  - Students may take help from the useful web sources like 'Do it yourself' for getting the ideas.



- Students should write a brief report on the Mini Project consisting of 5 – 6 pages and submit in a file.
- It was brought to the notice that the teaching load of the course on Engg. Mathematics need to be balanced in two semesters. This is required to ensure that the teaching load for the faculty is available in both the semesters. It was resolved that any change in the course structure is possible only in the next cycle of revision of the syllabi, since the current structure is already being implemented.
- In the fourth and fifth semesters, the theory and laboratory courses on Product Design Engg have been included. Also, the contents have been elaborated. Hence, it was decided that the latest version of the curriculum of the above programs must be uploaded on the website for the information and necessary action by all the concerned.

The final form of curriculum of first and second year B. Tech. Programs in Mechanical Engg. (*Annexure-I*), Production Engg. (*Annexure-II*), and Automobile Engg. (*Annexure-III*) was approved and recommended for the final approval to the Academic Council.

**Item No. 2 To recommend the course structure and syllabi for third year B. Tech. Programs**

The proposed course structures and syllabi for third year B. Tech. programs in Mechanical Engg., Production Engg., and Automobile Engg. were discussed.

Following points were brought to the notice:

- There are two courses related to thermal engineering in the fifth semester of B. Tech. Program in Mech. Engg. The courses on different specializations in Mech. Engg. should be evenly distributed in different semesters to ensure that teaching load is also evenly balanced. However, it was resolved that such balancing can be done only in the next cycle of revision of syllabi.
- The evaluation of audit courses should be clearly defined. It was decided that the evaluation will be carried out by the concerned teacher in the same way of evaluation of credit courses. However, there will not be University-level examinations. But, the concerned teachers must evaluate the course exactly like a credit course with more emphasis on student presentations on various topics of the relevant course.

The course structure and syllabi for third year B. Tech. Programs in Mechanical Engg. (*Annexure-IV*), Production Engg. (*Annexure-V*), and Automobile Engg. (*Annexure-VI*) were approved and recommended for the final approval of Academic Council.

**Item No. 3 To recommend the course structure and syllabi for final year B. Tech. Programs**

The proposed course structures and syllabi for final year B. Tech. programs in Mechanical Engg., Production Engg., and Automobile Engg. were discussed.

Following points were brought to the notice:



- Prof. Dr. Dilip Pangavhane suggested that Elective course of 'Vehicle Architecture and Packaging' should be included in the seventh semester of B. Tech. Program in Automobile Engg.
- In the context of internship in the eighth semester, there should be clear guidelines related to following points:
  - Is the student required to complete only the Internship in the industry or s/he is also required to take all the courses as Audit courses in that semester?
  - What should be the nature of the project in the industry to fulfill the requirements of B. Tech. project in lieu of the theory courses in the eighth semester?
  - What should be the criteria to permit the students for completing the internship in the industry?
  - What about the evaluation pattern for the students who are opting for industrial internship? The students who are not opting for the internship will be evaluated at the end of seventh and eighth semesters in two stages.

Hence, it was decided that the course structure and syllabi for final year B. Tech. Programs will be finalized in the next meeting of BoS.


**Item No. 4 To nominate one representative of BoS as expert on Faculty as per modified statutes [S3.10 (d) PP 71]**

Dr. V. G. Sargade was recommended by BoS in Mechanical/Production/Automobile Engineering to be considered for the nomination on Faculty of Engg. and Technology.

**Item No. 5 To review the University Rules and Regulations and modified Statutes for providing suggestions**

It was opined that there are no suggestions in the University Rules and modified statutes to be forwarded to Academic Council.

The meeting ended with thanks to the Chair.

  
 Dr. V. G. Sargade  
 Member secretary

  
 Dr. Sadaiah Mudigonda  
 Head  
 Department of Mechanical Engineering  
 Dr. Babasaheb Ambedkar Technological University  
 Lonere, Tal. Mangaon, Dist. Raigad 402103, Maharashtra

**Dr. Babasaheb Ambedkar Technological University Lonere**  
**Department of Mechanical Engineering**  
**Board of Studies**  
**Minutes of Meeting**

Date: June 16, 2020

The meeting of BoS was held on June 16, 2020 at 3:30 pm using an on-line platform. Following members attended the meeting:

1. Dr. M. Sadaiah, Chairman
2. Dr. V. G. Sargade, Member
3. Dr. Rahul Barjibhe, Invitee
4. Dr. R. D. Patil, Invitee
5. Dr. Dilip Pangavhane, Invitee
6. Dr. N. G. Patil, Invitee
7. Dr. Sanjeev Suryawanshi, Invitee
8. Prof. Prakash G. Taur, Invitee

Following members could not attend the meeting:

1. Dr. A. Kumaraswamy, Member
2. Dr. A. N. Chapgaon, Member
3. Dr. P. B. Maheshwary, Member

Following points were discussed:

**Item No. 1 To approve the new syllabi of the following U.G. Programmes (1st Semester to 8<sup>th</sup> Semester)**

- i. B. Tech. Mechanical Engineering
- ii. B. Tech. Mechanical Engineering (Sandwich)
- iii. B. Tech. Production Engineering
- iv. B. Tech. Automobile Engineering

The detailed syllabi for the U.G. programmes viz. B. Tech. Mechanical Engineering (*Annexure-I*), B. Tech. Mechanical Engineering (Sandwich) (*Annexure-II*), B. Tech. Production Engineering (*Annexure-III*), and B. Tech. Automobile Engineering (*Annexure-IV*), were put up for the approval of BoS.

BoS approved the same and recommended for the final approval of the Academic Council of the University.

**Item No. 2 To approve the Final Year syllabi of the following B. Tech. programmes:**



- a. B. Tech. Mechanical Engineering
- b. B. Tech. Mechanical Engineering (Sandwich)
- c. B. Tech. Production Engineering
- d. B. Tech. Automobile Engineering

The detailed syllabi for the final year U.G. programmes viz. B. Tech. Mechanical Engineering (*Annexure-V*), B. Tech. Mechanical Engineering (Sandwich) (*Annexure-VI*), B. Tech. Production Engineering (*Annexure-VII*), and B. Tech. Automobile Engineering (*Annexure-VIII*), were put up for the approval of BoS.


The BoS approved the same and recommended for the final approval of the Academic Council of the University.

**Item No. 3 To approve the subjects for the Major and Minor Degrees in Mechanical Engineering**

The list of subjects (*Annexure-IX*) along with its detailed syllabi for the Major and Minor Degrees in Mechanical Engineering was put up for the approval of BoS.

The BoS approved the same and recommended for the final approval of the Academic Council of the University.

The meeting ended with thanks to the Chair.

  
Dr. V. G. Sargade  
Member Secretary

  
16/06/2020  
Dr. Sadaiah Mudigonda  
Head  
Department of Mechanical Engineering  
Dr. Babasaheb Ambedkar Technological University  
Lonere, Tal. Mangaon, Dist. Raigad 402103, Maharashtra

# Minutes of Meeting

## Board of Studies in Mechanical Engineering

Date: 27.1.2021

A meeting of BoS in Mechanical Engineering was held on January 27, 2021 at 3.30 pm in online mode.

Following members attended the meeting:

1. Dr. Neeraj Agrawal – Chairman
2. Dr. Rahul Barjibhe – Member
3. Dr. Sanjeev Suryavanshi – Member
4. Dr. P. B. Maheshwary – Member
5. Dr. R. D. Patil – Member
6. Dr. Dilip Pangavhane – Member
7. Dr. Dadasaheb Shendage – Member
8. Dr. V. G. Sargade – Member

Following member could not attend the meeting:

1. Dr. A. Kumaraswamy

Following points were discussed and decisions were taken:

### 1. To discuss the modalities of online courses to be taken by the students in different semesters

- It was decided that every student will have to register for the prescribed NPTEL/SWYAM online course in each semester starting from semester-III. However, appearing for the final examination is optional. The course will also be taught by the assigned teacher with all formal University examinations CA-1, CA-2, Mid Semester Examination and End Semester Examinations.
- But in case of the non-availability of the NPTEL/SWYAM online course with the prescribed mapping (>70%), no course will be offered online.

### 2. To decide about the self-study courses in the final semester

- Being the self-study courses in the semester VIII, no formal classes will be held. However, a mentor cum teacher will be assigned who will facilitate to provide the assignments, additional teaching material, discussions and doubt clearing sessions and also to conduct CA-1, CA-2, Mid-Sem and End Sem exams with 3 hrs load per week.

### 3. To deliberate on the mapping of Minor and Major courses with NPTEL courses.

- It was noticed that a few prescribed courses in the respective semesters are either not in line with availability on NPTEL/SWAYAM platform or not getting mapped (> 75%) with the contents.
- Hence, the list of minors and majors was modified accordingly and is as given in the following tables.



Major Specialization: Thermal Engineering						
Mechanical Engineering						
NPTEL Course List						
Sr. No.	Semester	Name of Course	Duration	Instructor	Organizing Institute	Credits
1	V	Heat Exchangers: Fundamentals and Design Analysis	12 Weeks	Prof. Prasanta Kumar Das, Prof. Indranil Ghosh	IIT KGP	4
2	V	Energy Conservation and Waste Heat Recovery	12 Weeks	Prof. Prasnata Kumar Das, Prof. A. Battacharya	IIT KGP	4
3	VI	Viscous Fluid Flow	12 Weeks	Prof. Amresh Dalal	IIT Gandhinagar	4
4	VI	Computational Fluid Dynamics for Incompressible flow	12 Weeks	Prof. Amresh Dalal	IIT Gandhinagar	4
5	VII	Soft Skills for Business Negotiations and Business Strategies	12 Weeks	Prof. Uttam Kumar Banarjee	IIT KGP	4

Note:

1. Minimum 8 to 12 week course is required to allot 4 credits for the course.
2. Structure should be uniform , across all branches.

Major Specialization: Thermal Engineering						
Mechanical Engineering						
NPTEL Course List						
Sr. No.	Semester	Name of Course	Duration	Instructor	Organizing Institute	Credits
1	V	Rapid Manufacturing	12 Weeks	Prof. J. Ramkumar, Prof. Amandeep Singh	IIT Kanpur	4

2	V	Manufacturing Systems Technology I & II	12 Weeks	Prof. Shantanu Bhattacharya	IIT Kanpur	4
3	VI	Introduction to Mechanical Micro Machining	12 Weeks	Prof. Ajay M Sidpara	IIT Kharagpur	4
4	VI	Processing of Polymers and Polymer Composites	8 Weeks	Prof. Inderdeep Singh	IIT Roorkee	4
5	VIII	Production and Operation Management	12 Weeks	Prof. Rajat Agrawal	IIT Roorkee	4

**Note:**

1. Minimum 8 to 12 week course is required to allot 4 credits for the course.
2. Structure should be uniform , across all branches.

## Department of Mechanical Engineering

### Courses under Minor Degree List

MOOCS Platform: NPTEL.

Sr. No.	Sem.	Name of Course	Teaching Scheme	Duration	Instructor	Organizing Institute	Credits
1	V	Industrial Safety Engineering	4Hrs/week	12 Weeks	Prof. Jhareswar Maiti	IIT Kharagpur	4
2	V	Basics of Materials Engineering	4Hrs/week	12 Weeks	Prof. Ratna Kumar Annabattula	IIT Madras	4
3	V	Concepts of Thermodynamics	4Hrs/week	12 Weeks	Prof. Suman Chakraborty	IIT Kharagpur	4
4	VI	Mechanical Measurement Systems	4Hrs/week	8 Weeks	Prof. Ravi Kumar	IIT Roorkee	4
5	VIII	Welding Processes	4Hrs/week	12 Weeks	Prof. Murugaiyan Amirthalingam	IIT Madras	4

*(Handwritten signatures)*



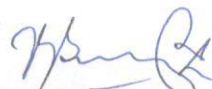
**4. To finalize the calculation of work load of the teacher for BTP/BTS**

- It was recommended that to consider the work load of 3 hrs/week and 1 hr/week for B. Tech. Project and B. Tech. Seminar respectively.

**5. To decide about the teaching and evaluation of the courses for the students who are directly admitted in the second year**

- As per the guidelines and instructions from Dean, Academic, the list of the courses to be taught has already been finalized.
- It was informed that 75% of the syllabus of the prescribed courses will be taught online by the end of the February 2021 by engaging 5 – 6 classes of each course per week according to the convenience of students and teachers.

**6. Dr. Shendage has suggested to introduce the electives such as Hydrogen Storage, Artificial Intelligence, Green Energy, in view of the current scenario of the industry and in line with the industries.**

  
(Dr. V.G. Sargade)  
Member-Secretary

Agrowal 27/6/21  
Dr. N. Agrowal  
Prof 2 Heeral

# Minutes of the Meeting

## Board of Studies in Mechanical/Mechanical-Sandwich/Production/Automobile Engineering

Date: 1.9.2021

A meeting of BoS in Mechanical Engineering was held on September 1, 2021 at 3.00 pm in online mode with the following agenda points:

1. Review of the syllabus of the new proposed PG programme in Automation & Robotics by one of the affiliated colleges CSMSS Chh. Shahu College of Engineering, Aurangabad.
2. Review and revision of the existing UG syllabus implemented from 2020
3. Any other point

Following members attended the meeting:

1. Dr. Neeraj Agrawal – Chairman
2. Dr. Sanjeev Suryavanshi – Member
3. Dr. Dilip Pangavhane – Member
4. Dr. Dadasaheb Shendage – Member
5. Dr. V. G. Sargade – Member Secretary

Following member could not attend the meeting:

1. Dr. A. Kumaraswamy - Member
2. Dr. Rahul Barjibhe – Member
3. Dr. P. B. Maheshwary – Member
4. Dr. R. D. Patil – Member

Following points were discussed and recommendations were made:

### 1. Review of the syllabus of the new proposed PG programme in Automation & Robotics

- The present scheme of the proposed syllabus is not in-line with the University PG syllabus scheme and it was recommended that the structure of the proposed syllabus should be in-line with the University PG structure with respect to No. of core subjects, Electives, Open Electives, Labs, contact hours, tutorials and credits for each course etc..
- Elective V in semester II should be replaced by an open elective with one of the courses as Research Methodology.
- There should be provision of Mini Project in the semester II instead of Robotics & Simulation Lab which can be merged with the Automation Engineering Lab in Semester I with appropriate title and list of practicals.
- List of electives should be separate for the elective III and IV.





- Subjects should not be at introductory level as an elective at the PG level. In view of this it was recommended that contents of the enlisted subjects in Elective I should be merged with the core subject Mechatronics. Further, it is felt that some amount of fundamentals of Chemical Engineering should also be taught to the students in this subject considering present era of non conventional energy such as hydrogen storage, automation and control. Accordingly, content of the Mechatronics subject should be reframed.
- New list of Elective I should be prepared.
- Considering the present scenario, subject like Data Analysis should be introduced either in Elective II or Elective III, if it is not getting covered in the any of the existing courses.

## 2. Review and revision of the existing UG syllabus implemented from 2020

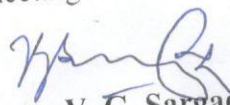
- The said syllabus of Mechanical/Automobile/Production/Sandwich was reviewed and recommended that the inclusion of Applied Thermodynamics and Metrology and Quality Control subjects of 4 credits at appropriate level under the category PCC considering the necessity and importance of these subjects to the concerned specializations. To accommodate these subjects the following alteration is suggested keeping the total number of credits as 160.

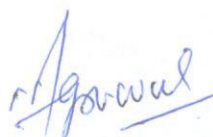
Specialization	Suggested change	Adjusted with	Remarks, if any
B. Tech. in Mechanical Engineering and Sandwich	Inclusion of Applied Thermodynamics of 4 credit in V Semester	Seminar I, II and III at Semester II, III and IV and mini project I of 1 credit each	Deletion of Seminar I, II and III at Semester II, III and IV and mini project I at V semester
B. Tech. in Automobile Engineering	Inclusion of Applied Thermodynamics of 4 credit in IV Semester	Seminar I, II and III at Semester II, III and IV and mini project I of 1 credit each	Deletion of Seminar I, II and III at Semester II, III and IV and mini project I at V semester
B. Tech. in Production Engineering	Inclusion of Metrology and Quality Control of 4 credit in V Semester	Seminar I, II and III at Semester II, III and IV and mini project I of 1 credit each	Deletion of Seminar I, II and III at Semester II, III and IV and mini project I at V semester
B. Tech. in Mechanical / Sandwich/Production/Auto mobile (All specializations)	Seminar with the broader name B. Tech. Seminar of 1 credit in VI semester	Adjusted by reducing 1 credit of Open	Reducing 1 credit of open elective. There will be only one

		elective in VI semester	seminar in Semester VI.
B. Tech. in Mechanical / Sandwich/Production/Auto mobile (All specializations)	Increase the credit of existing Mini project II and make it 2 credits in VI and renamed as Mini Project	Adjusted by reducing 1 credit of Mini Project III of Semester VII	Removal of Mini Project III of VII semester and provision of only one Mini Project of 2 credit in semester VI

- With the above recommendations, there will be only **one B Tech Seminar of 1 credit and only one mini project of 2 credits in VI**, instead of series of seminars and mini projects.
- It was recommended to introduce the **Artificial Intelligence course of 3 credits in online mode (through SWYAM/NPTEL)** and an **audit course on Constitution of India in V semester and III semester**, respectively. (There are instructions from competent authority to introduce the credit course Artificial Intelligence subject in online mode (through SWYAM/NPTEL) of 3 credits (over and above of existing 160 credits) for all disciplines of B. Tech. except Computer Engg. and Information Technology and Constitution of India for all disciplines).

The meeting ended with thanks to the Chair.

  
**Professor V. G. Sargade**  
 Member Secretary

  
**Professor Neeraj Agrawal**  
 Chairman

1-9-2021