

Tatyasaheb Kore Institute of Engineering and Technology, Warananagar

(An Autonomous Institute, Affiliated to Shivaji University, Kolhapur)

Department of Mechanical Engineering

Board of Studies Meeting No.03 and Resolution

Day & Date: Saturday, 9th July, 2022

Time: 10.30 am

Venue: (Online/ offline - seminar hall)

Agenda:-

- 3.1 Greeting and welcoming the BoS members.
- 3.2 Confirmation of the minutes of last BoS meeting held on 04th September 2021.
- 3.3 Action taken report on the recommendations received in the last BoS and Academic Council meeting.
- 3.4 Discussion and Approval of the T.Y. B. Tech Structure & Syllabus.
- 3.5 Discussion and Approval of the Honor Course Structure & Syllabus.
- 3.6 Approving the panel of Examiners for paper setting (Three Names) and assessment for the courses in T.Y. B. Tech.
- 3.7 Any other points with the permission of chair.

Welcome Address and Introductory Remarks by the BoS Chairman

The Board of Studies of Mechanical Engineering held on Saturday, 9th July, 2022 at 10.30 am through online / offline mode at TKIET, Warananagar. At the outset BoS Chairman Dr. P. V. Mulik and Dr. M. S. Dhuttargaon welcomed all the BoS members present for the third meeting (03 Meet) Online / offline.

The following members were present.

External Members:

Name	Designation	Mode of Attend
1. Dr. D. G. Thombare	VC Nominee S. U. Kolhapur	Online
2. Dr. U. C. Kapale	Subject Expert from from outside the parent University	Online
3. Dr. H. A. Mandave	Subject Expert from from outside the parent University	Online
4. Mr. Sanjay Khurd	Representative from Industry / Corporate Sector	Offline
5. Mr. Digvijay Patil	PG Meritorious Alumnus	Online
6. Mr. Prakash Patil	Member from Alumnus	Online

Internal Members:

1. Dr. S.V. Anekar	Principal & Chairmen, Academic Council
2. Dr. K. I. Patil	Dean Academic
3. Dr. P. V. Mulik	HOD & BoS Chairman
4. Prof. G. S. Kamble	BoS member & Member Secretary
5. Dr. M. S. Dhuttargaon	BoS member
6. Dr. M. R. Jadhav	BoS member
7. Dr. A. S. Todkar	BoS member
8. Dr. P. J. Patil	BoS member
9. Dr. N. S. Dharashivkar	BoS member
10. Prof. V. N. Mane	BoS member
11. Prof. R. T. Salunkhe	BoS member

3.1 To welcome the BoS members for second online meeting.

Resolution: BoS Chairman Dr. P. V. Mulik and Dr. M. S. Dhuttargaon welcomed all the BoS members present for the third online / offline meeting.

3.2 Confirmation of the minutes of last BoS meeting held on 4th September, 2021.

Resolution: All external and internal BoS members confirmed the minutes of the last BoS meeting which was held on 4th September, 2021.

3.3 Action taken report on the recommendations received in the last BoS and Academic council meeting.

Resolution: In the last BoS meeting some suggestions was given by the BoS members for better improvement in the syllabus structure. Following are the suggestions and actions taken are tabulated.

Suggestions and action taken of the Second BoS meetings

Sr. No.	Suggestions	Suggestions given by	Action taken
1.	Change the name of Industrial Machine Drawing as Industrial Drawing or Machine Drawing	Dr. D. G. Thombare	It is considered and implemented. Changed name of the subject as Industrial Drawing.
2.	End Semester Examination (ESE) would be based on final projects and do small design activities as mini project and focus on experimental research and design of experiments for M. Tech.	Dr. D. G. Thombare	End Semester Examination (ESE) of last semester of M. Tech. is based on final project. In the next revision of M. Tech. curriculum department will incorporate mini project head in the third semester. For dissertation, experimental analysis of the problem is mandatory.
3.	Industrial training should be included after Second year.	Dr. D. G. Thombare	It is considered and implemented.
4	For M. Tech. dissertation topic should be finalised at the beginning of semester III.	Dr. U.C. Kapale	It is considered and implemented.
5	There is more weightage for Geometrical Dimensions and Tolerances for the industries and this point should be included in Machine Drawing subject.	Dr. H. A. Mandave	It is considered and implemented in the subject as Industrial Drawing.
6	Industrial training should be included for M. Tech. after semester II.	Dr. H. A. Mandave	For M. Tech. students Industrial training is mandatory after semester II and students must submit report of the same to guide.

7	Add smart material and structure chapter in material science and metallurgy subject.	Mr. Digvijay Patil	Separate subject is included in the Third year semester II Curriculum.
8	Add Electric welding chapter in electrical technology subject.	Mr. Digvijay Patil	It is considered and implemented.
9	Add one or two units on Industry 4.0 and smart materials.	Dr. Sham Gurav	It is considered. It will be offered in final year for Honour degree.
10	For M. Tech. guide allotment should be in the semester II.	Dr. Sham Gurav	It is considered and implemented.

3.4 Discussion and Approval of the T.Y. B. Tech Syllabus Structure & Syllabus

Resolution: The objectives of BoS meeting and T.Y. B. Tech Syllabus Structure & Syllabus were discussed. All teaching faculty those who are teaching to the T. Y. B. Tech presented Syllabus Structure & Syllabus of the T. Y. B. Tech. BoS member Dr. M. S. Dhuttargaon resolved to the approval of the T.Y. B. Tech Syllabus Structure & Syllabus. BoS member Secretary Prof. G. S. Kamble explained that, final draft of the syllabus is forwarded to academic council for suggestions. Syllabus is designed with innovative techniques and considering current industry requirement software based courses. Structure will be 60 + 40 pattern for theory courses. Total weightage for each semester is around 800 marks. A semester should have 21 credits and require permission for extra credits. It is decided in this meeting that, minimum 50 % short questions / MCQ will be asked in the ISE and ESE. All present BoS members have participated into the discussion of syllabi structure of mechanical programme and suggested to check the credits distributed with the Apex body of Technical Institution & decision left to BoS chairman and resolved to approval.

Suggestions from BoS members for T.Y. B. Tech Syllabus Structure:

The following members have suggested incorporating (if possible) the certain changes in the V and VI semester and syllabi & decision left to BoS chairmen and resolved to approve.

- 1) Dr. D. G. Thombare suggested don't use study type title for experiments instead of which use demonstration and design. For heat and mass transfer subject theoretical part more for syllabus as compared to design part. Course content should be design oriented such as design of heat exchanger, design of heater for domestic etc. He suggested regarding internal combustion engine subject that add advanced fuel

system, embedded system and electrical vehicles. Also he suggested that examiners should be from autonomous colleges only for all exams.

- 2) Dr. H. A. Mandave, brought to the notice about manufacturing skill development lab - III that instead of introduction to milling, shaping machines use title as demonstration of said machines. For Theory of machine – II subject add gear train topic and industrial visit should be arranged at gear box manufacturing companies. He suggested for audit course V, identify the courses such as aptitude, paper presentation etc. He suggested reference book for process planning and cost estimation by A. D. Johnson. Also he suggested regarding mini project to invite industrial experts for conducting orals.
- 3) Mr. Digvijay Patil elaborated about theory of machine subject to include 12 to 13 experiments from which 10 experiments should be compulsory. He suggested to add introductory part of refractory for heat and mass transfer subject. For design of machine elements II subject, he suggested to add design of compact parts and design of rolling contacts, contact stresses etc.
- 4) Dr. U. C. Kapale explained regarding explosion of electrical vehicles and suggested to add topic cooling system for batteries in heat transfer subject. He also brought to notice that physical visit is important to plants to understand the process for industrial training subject.
- 5) Mr. Sanjay Khurd, Prakash Patil were attended the meeting online and offline mode and given suggestions for proper implementation of the syllabus structure of T. Y. B.Tech.

3.5 Open forum for panel of examiners - Dr. N. S. Dharashivakar suggested names of examiners for T. Y. B. Tech class.

3.6 Any other points with the permission of chair.

Resolution: All the BoS members came to the common conclusion that the syllabi prepared will be helpful for the students to meet the challenges of

industries and will bridge the gap between the world of academician and corporate.

Prepared and signed by

BoS, Chairman

Mechanical Engineering

CC to:

1. Principal
2. Dean Academic
3. Member Secretary, Mechanical Engg.

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Minutes of the BoS meeting

1. BoS Chairman Dr. P. V. Mulik and BoS member Dr. M. S. Dhuttargaon welcomed all the BoS members present for the third meeting Online / offline mode.
2. All external and internal BoS members confirmed the minutes of the last BoS meeting which was held on 04th September 2021.
3. The suggestions for better improvement in the syllabus structure and action taken of the last BoS meeting were explained by the BoS chairman Dr. P. V. Mulik.
4. T.Y. B. Tech Syllabus Structure & Syllabus were discussed in the BoS meeting. All teaching faculty those who are teaching to the T. Y. B. Tech presented Syllabus Structure & Syllabus of the T. Y. B. Tech. BoS member Dr. M. S. Dhuttargaon resolved to the approval of the T.Y. B. Tech Syllabus Structure & Syllabus.
5. BoS member Secretary Prof. G. S. Kamble explained that syllabus is designed with innovative techniques and considering current industry requirement software based courses. Structure will be 60 + 40 pattern for theory courses.
6. The following members have suggested incorporating (if possible) the certain changes in the V & VI semester and syllabi & decision left to BoS chairmen and resolved to approve.
 - a) Dr. D. G. Thombare suggested don't use study type title for experiments instead of which use demonstration and design. For heat and mass transfer subject theoretical part more for syllabus as compared to design part. Course content should be design oriented such as design of heat exchanger, design of heater for domestic etc. He suggested regarding internal combustion engine subject that add advanced fuel system, embedded system and electrical vehicles. Also he suggested that examiners should be from autonomous college only for all exams.
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 - e) Mr. Sanjay Khurd, Prakash Patil were attended the meeting online and offline mode and given suggestions for proper implementation of the syllabus structure of T. Y. B.Tech.
7. All BoS members have participated into the discussion on panel of Examiners for paper setting and assessment for the courses in T.Y. B. Tech and it is decided that examiners should be from autonomous colleges only for all exams.
 8. All the BoS members came to the common conclusion that the syllabi prepared will be helpful for the students to meet the challenges of industries and will bridge the gap between the world of academician and corporate.
 9. Prof. R. T. Salunkhe expressed a vote of thanks and the meeting was over.

A separate copy of Resolution is prepared.

Prof. G. S. Kamble

Dr. K.I.Patil

Dr. P. V. Mulik

Member Secretary

Academic Dean

Head & BoS Chairman