

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.04 and Resolution

Day & Date: Saturday, 17th June, 2023

Time: 10.30 am

Venue: (Online/ offline - seminar hall)

Agenda:-

- 4.1 Greeting and welcoming the BoS members.
- 4.2 Confirmation of the minutes of last BoS meeting held on 09/07/2022.
- 4.3 Action taken report on the recommendations received in the last BoS and Academic Council meeting.
- 4.4 Discussion and Approval of the structure and syllabus of Sem. VII & VIII of Final year B. Tech.
- 4.5 Approving the panel of Examiners for paper setting (Three Names) and assessment for the courses in Sem.-VII & VIII of Final year B. Tech.
- 4.6 Approving the panel of Examiners for Dissertation Phase-II (10 Names) for the courses in M. Tech-II.
- 4.7 Approving the change of Guide procedure for M. Tech-II.
- 4.8 Discussion and Approval of Modification and re-examination rules to be added in the Examination Manual
- 4.9 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, 17th June, 2023 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 fourth meeting (04 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

4.1 To welcome the BoS members for fourth online/ offline meeting.

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

4.2 Confirmation of the minutes of last BoS meeting held on 9th July, 2022.

Resolution: Dr. P. V. Mulik elaborated suggestions and action taken of 3rd board meeting. All external and internal BoS members confirmed the minutes of the last BoS meeting which was held on 9th July, 2022.

4.3 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 Third BoS meetings

Sr. No.	Suggestions	Suggestions given by	Action taken
1.	Study type title should not be used for experiments instead of which use demonstration and design.	Dr. D. G. Thombare	It is considered and implemented. Changed names of the subject assignments.
2.	For heat and mass transfer subject theoretical part is 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.	Dr. D. G. Thombare	It is considered and implemented.
3.	For internal combustion engine subject, add advanced fuel system, embedded system and electrical vehicles.	Dr. D. G. Thombare	For I. C. Engine subject, advanced fuel system, embedded system and electrical vehicles points were added in the syllabus. .
4	For Theory of machine – II subject add gear train topic and industrial visit should be arranged at gear box manufacturing	Dr. H. A. Mandave	It is considered.

	companies.		
5	For design of machine elements - II subject, add design of compact parts and design of rolling contacts, contact stresses etc.	Mr. Digvijay Patil	It is considered and implemented.
6	Regarding explosion of electrical vehicles add cooling system for batteries in heat transfer subject.	Dr. U. C. Kapale	It is considered and implemented.
7	Physical visit is important to plants to understand the process for industrial training subject.	Dr. U. C. Kapale	Industrial training is mandatory after semester III and students must undergo the training at the plants and submit report of the same to guide.
8	Examiners should be only from autonomous colleges for all exams.	Mr. Prakash Patil	It is considered.

4.4 Discussion and Approval of the Final year B. Tech Syllabus Structure & Syllabus.

Resolution: The objectives of BoS meeting and Final year B. Tech Syllabus Structure & Syllabus were discussed. All teaching faculty those who are teaching to the B. Tech presented Syllabus Structure & Syllabus of the B. Tech. BoS member Dr. M. S. Dhuttargaon resolved to the approval of the B. Tech Syllabus Structure & Syllabus. BoS member Secretary Prof. G. S. Kamble presented syllabus of final year B. Tech and asked for suggestions. He explained that, syllabus should be designed in such a way that it should gives more exposure for practical. He also explained credits and weightage for 7th and 8th semester. Regular academic pattern is provided for the students where theory paper and labs are offered for 8th semester. Two tracks or patterns curriculum are provided for students. These are

- 1) Academic / capstone pattern
- 2) Industrial Internship pattern

Weightage of 800 marks and credits of 19. He also explained objectives and outcomes of academic pattern for final year B. Tech and guidelines and rules for industrial internship pattern. 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 final year B. Tech Syllabus Structure:

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

- 1) Dr. D. G. Thombare suggested for the subject automobile and electrical reference book instead of W.H. Crouse., Tata McGraw Hill Publishing uses Kenneth Newton, W. Steeds, T. K. Garrett book.
- 2) Dr. H. A. Mandave, elaborated about mechanical system design subject that students should understand GDT and material selection part and should mention material and material specification. Also he brought to notice that how students will complete the projects in the group during internship. Also he suggested that add NPTL courses in 8th semester. To increase interaction between industries invite industrial examiners for different examinations.
- 3) Mr. Digvijay Patil suggested regarding Automobile and Electrical vehicle subject that add hydrogen fuel vehicles also add separate chapter of alternative to electrical vehicles. Also he suggested that do not allow internship for failed in any one subject.
- 4) Dr. U. C. Kapale explained regarding some guidelines for internship that travelling, lunch and one supervisor should be provided and budget should be allotted for the visit. Also he suggested industrial tie up and external examination related with internship.
- 5) Mr. Prakash Patil suggested regarding Manufacturing skill development subject that students should spent more time on manufacturing machining process and there should be separate practical and assignment on aesthetics and ergonomics topic. Also he suggested regarding FEA practical that include simple industrial components in FEA practical. Add BS6 norms for automobile and add environmental effects and future scope of the electrical vehicles in Automobile subject.

4.5 Discussion on examination structure of the Final year B. Tech.

Resolution: Prof. S. S. Patil explained examination structure of the Final year B. Tech. There should two ISE per semester, weightage for chapter no 5 and 6 should be more as compared to first four chapters.

4.6 Open forum for panel of examiners - Dr. N. S. Dharashivakar suggested names of examiners for Final year B. Tech class and Dr. P. J. Patil listed names of the examiners for M. Tech. second year examinations also he explained facility for change of guide for M. Tech.

4.6 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 fourth meeting Online / offline mode.
2. All external and internal BoS members confirmed the minutes of the last BoS meeting which was held on 09th July, 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. Final year B. Tech Syllabus Structure & Syllabus were discussed in the BoS meeting. All teaching faculty those who are teaching to the final year B. Tech presented Syllabus Structure & Syllabus of the B. Tech. BoS member Dr. M. S. Dhuttargaon resolved to the approval of the B. Tech Syllabus Structure & Syllabus.
5. BoS member Secretary Prof. G. S. Kamble presented syllabus of final year B. Tech and asked for suggestions. He explained that, syllabus should be designed in such a way that it should give more exposure for practical. He also explained credits and weightage for 7th and 8th semester. Regular academic pattern is provided for the students where theory paper and labs are offered for 8th semester.
6. The following members have suggested incorporating (if possible) the certain changes in the VII & VIII semester and syllabi & decision left to BoS chairmen and resolved to approve.
 - a) Dr. D. G. Thombare suggested for the subject automobile and electrical reference book instead of W.H. Crouse., Tata McGraw Hill Publishing uses Kenneth Newton, W. Steeds, T. K. Garrett book.
 - b) Dr. H. A. Mandave, elaborated about mechanical system design subject that students should understand GDT and material selection part and should mention material and material specification. Also he brought to notice that how students will complete the projects in the group during internship. Also he suggested that add NPTL courses in 8th semester. To increase interaction between industries invite industrial examiners for different examinations.
 - c) Mr. Digvijay Patil suggested regarding Automobile and Electrical vehicle subject that add hydrogen fuel vehicles also add separate chapter of alternative to electrical vehicles. Also he suggested that do not allow internship for failed in any one subject.
 - d) Dr. U. C. Kapale explained regarding some guidelines for internship that travelling, lunch and one supervisor should be provided and budget should be allotted for the visit. Also he suggested industrial tie up and external examination related with internship.
 - e) Mr. Prakash Patil suggested regarding Manufacturing skill development subject that students should spend more time on manufacturing machining process and there should be separate practical and assignment on aesthetics and ergonomics topic. Also he suggested regarding FEA practical that include simple industrial components in

FEA practical. Add BS6 norms for automobile and add environmental effects and future scope of the electrical vehicles in Automobile subject.

7. Prof. S. S. Patil explained examination structure of the Final year B. Tech. There should be two ISE per semester, weightage for chapter no 5 and 6 should be more as compared to first four chapters.
8. All BoS members have participated into the discussion on panel of Examiners for paper setting and assessment for the courses in B. Tech.
9. 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.
10. 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