

# **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.02 and Resolution**

**Day & Date:** Saturday, 4<sup>th</sup> September 2021

**Time:** 11.00 AM

**Venue:** (Online)

#### **AGENDA**

- 2.1 Greeting and welcoming the BoS members.
- 2.2 Confirmation of the minutes of last BoS meeting held on 8<sup>th</sup> May, 2021.
- 2.3 Action taken report on the recommendations received in the last BoS and Academic Council meeting.
- 2.4 Discussion and Approval of the S.Y. B. Tech Syllabus Structure & Syllabus
- 2.5 Discussion and Approval of the M. Tech First & Second Year Syllabus Structure & Syllabus
- 2.6 Approving the panel of Examiners for paper setting (Three Names) and assessment for the courses in S.Y. B. Tech & Second Year of M. Tech Program.
- 2.7 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 4<sup>th</sup> September, 2021 at 11.00 am through online 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 second meeting (02 Meet) Online.

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	Online
5. Dr. Sham Gurav	Representative from Industry / Corporate Sector	Online
6. Mr. Digvijay Patil	PG Meritorious Alumnus	Online
7. 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

2.1 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 second online meeting.

2.2 Confirmation of the minutes of last BoS meeting held on 8<sup>th</sup> May, 2021.

**Resolution:** All external and internal BoS members confirmed the minutes of the last BoS meeting which was held on 8<sup>th</sup> May, 2021.

2.3 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 first BoS meetings

Sr. No.	Suggestions	Suggestions given by	Action taken
1.	To add audit courses and software courses from first year	Dr. U. C. Kapale	Audit courses are already offered from F. Y. B. Tech. But Software based courses will be offered from S. Y. B. Tech. Onwards. In this connection, Programming in C++ and Python will be offered through S. Y. B. Tech. Curriculum.
2.	M. Tech projects should be industry and software based	Dr. U. C. Kapale	Such guidelines are mentioned in the curriculum of M. Tech.
3.	More weightage should be given to In Semester Examination (ISE)	Dr. D. G. Thombare	As per guidelines of Academic Council, 60-40 weightage is considered in the B. Tech. curriculum for current batch. It is implemented.
4.	Offer wide variety of electives, add industries related courses, project in the third year	Dr. D. G. Thombare	This suggestion is under consideration and will be implemented through open elective of T. Y. B. Tech. and Professional Elective of Final Year.
5.	Number of choices should be increased in Choice Based Credit System	Dr. H. A. Mandave	Academic Council has decided the credit distribution for all four years and given freedom to BoS to increase credits by 3-4 for entire program.
6.	Industrial training should be at all levels of degree course	Dr. H. A. Mandave	It is implemented from T. Y. B. Tech onwards. But due to credit limit, it is not possible to implement for all fours years.
7.	Students should be made aware IoT, Machine learning and supply chain management also software's mostly used in industry	Mr. Prakash Patil	It is considered. It will be offered in final year for Honour degree.

8.	The audit courses should be focused on overall personnel development of the student	Mr. Prakash Patil	It is considered. Detail Content of Audit courses is designed at institute level in which this aspect is included.
9.	Approach to curriculum should bridge the gap between industry and academia & it should be application oriented	Mr. Digvijay Patil	Softwares used in industry, industrial visits, in-plant training and industry based projects are already included in syllabus to bridge the gap. It will also be done through co-curricular activities such expert lectures, training program.
10.	Regarding M. Tech subject Research Methodology, IPR, R & D should not be combined together, it should be separate	Mr. Digvijay Patil	It is considered and implemented from this year only.
11.	Experts from the industry should be called to guide the students	Mr. Sanjay Khurd	It will also be done through co-curricular activities such expert lectures, training program.
12.	More industrial projects should be taken by the students to enhance the problem solving skills	Mr. Sanjay Khurd	
13.	Instead of C++ introduce Matlab, Python in the syllabus	Dr. Sham Gurav	Both Programming in C++ and Python are offered through S. Y. B. Tech. Curriculum. Hence it is considered and implemented
14.	Introduce Electrical vehicle technology in the syllabus, 3D printing, Additive technology in the syllabus	Dr. Sham Gurav	This suggestion is accepted and this course will be provided in T.Y. B. Tech.

## 2.4 Discussion and Approval of the S.Y. B. Tech Syllabus Structure & Syllabus

**Resolution:** The objectives of BoS meeting and S.Y. B. Tech Syllabus Structure & Syllabus were discussed. All teaching faculty those who are teaching to the S. Y. B. Tech presented Syllabus Structure & Syllabus of the S. Y. B. Tech. BoS member Dr. M. S. Dhuttargaon resolved to the approval of the S.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. Old courses which have less relevance to the industry having lack of job readiness approach should be excluded from the syllabus. Structure will be 60 + 40 pattern for theory courses. A semester should have 20 credits and require permission for extra credits. 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 S.Y. B. Tech and M. Tech First & Second Year Syllabus Structure:**

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

- 1) Dr. D. G. Thombare suggested that change the name of Industrial Machine Drawing as Industrial Drawing or Machine Drawing. Also suggested regarding M. Tech that 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.
- 2) Dr. H. A. Mandave, brought to the notice that there is more weightage for Geometrical Dimensions and Tolerances for the industries and this point should be included in Machine Drawing subject also he suggested regarding Industrial training for M. Tech. after semester II.
- 3) Mr. Digvijay Patil elaborated to add smart material and structure chapter in material science and metallurgy subject. Boiler technology chapter should be included in applied thermodynamics subject also he suggested add AC VFD chapter in electrical technology subject. He suggested that the approach to curriculum should bridge the gap between industry and academia & it should be application oriented.
- 4) Dr. Sham Gurav, explained regarding subject Python that the syllabus content in this subject is very dilute, lectures and library is not there and suggested to make corrections if possible also advised to add one or two units on industry 4.1 and smart materials. He brought to notice that Go cart competition is very good activity which should be brought in to curriculum.
- 5) Dr. U. C. Kapale, Mr. Sanjay Khurd, Prakash Patil were attended the meeting and given suggestions for proper implementation of the syllabus structure of S. Y. B.Tech.

6) Dr. S.V.Anekar, Principal, welcomed and presented keynote address to all the BoS members. He regretted about pandemic situation we are meeting online but next meeting will be in physical mode. He assured that the students should be aware of lifelong learning to fill the gap according to the change in technology & industry. He explained regarding opportunities in CNC / VMC programming and future of electrical vehicles.

## 2.5 Discussion and Approval of the M. Tech First & Second Year Syllabus Structure & Syllabus

**Resolution:** BoS member Dr. P. J. Patil presented M. Tech First & Second Year Syllabus Structure & syllabus which will be implemented w.e.f. academic year 2021-22.

## 2.6 Approving the panel of Examiners for paper setting (Three Names) and assessment for the courses in S.Y. B. Tech & Second Year of M. Tech Program.

**Resolution:** All BoS members have participated into the discussion on panel of Examiners for paper setting and assessment for the courses in S.Y. B. Tech & Second Year of M. Tech Program and suggested that it is to be decided by the internal BoS members, BoS Chairman in concern with BoE by keeping in mind the view of guidelines given by UGC and University and resolved to approve.

## 2.7 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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#### **AGENDA**

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- 2.11 Discussion and Approval of the S.Y. B. Tech Syllabus Structure & Syllabus
- 2.12 Discussion and Approval of the M. Tech First & Second Year Syllabus Structure & Syllabus
- 2.13 Approving the panel of Examiners for paper setting (Three Names) and assessment for the courses in S.Y. B. Tech & Second Year of M. Tech Program.
- 2.14 Any other points with the permission of chair



## 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 second meeting (02 Meet) Online.
2. All external and internal BoS members confirmed the minutes of the last BoS meeting which was held on 8<sup>th</sup> May, 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. S.Y. B. Tech Syllabus Structure & Syllabus were discussed in the BoS meeting. All teaching faculty those who are teaching to the S. Y. B. Tech presented Syllabus Structure & Syllabus of the S. Y. B. Tech. BoS member Dr. M. S. Dhuttargaon resolved to the approval of the S.Y. B. Tech Syllabus Structure & Syllabus.
5. 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.
6. The following members have suggested incorporating (if possible) the certain changes in the III semester and syllabi & decision left to BoS chairmen and resolved to approve.
  - a. Dr. D. G. Thombare suggested that change the name of Industrial Machine Drawing as Industrial Drawing or Machine Drawing. Also suggested regarding M. Tech that 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.
  - b. Dr. H. A. Mandave, brought to the notice that there is more weightage for Geometrical Dimensions and Tolerances for the industries and this point should be included in Machine Drawing subject also he suggested regarding Industrial training for M. Tech. after semester II.
  - c. Mr. Digvijay Patil elaborated to add smart material and structure chapter in material science and metallurgy subject. Boiler technology chapter should be included in applied thermodynamics subject also he suggested add AC VFD chapter in electrical technology subject. He suggested that the approach to curriculum should bridge the gap between industry and academia & it should be application oriented.
  - d. Dr. Sham Gurav, explained regarding Python that the syllabus content in this subject is very dilute, lectures and library is not there and suggested to make corrections if

possible also advised to add one or two units on Industry 4.1 and smart materials. He brought to notice that Go cart competition is very good activity which should be brought in to curriculum.

- e. Dr. U. C. Kapale, Mr. Sanjay Khurd, Prakash Patil were attended the meeting and given suggestions for proper implementation of the syllabus structure of S. Y. B.Tech.
7. BoS member Dr. P. J. Patil presented M. Tech First & Second Year Syllabus Structure & syllabus which will be implemented w.e.f. academic year 2021-22.
8. Dr. S.V.Anekar, Principal, welcomed and presented keynote address to all the BoS members. He explained regarding opportunities in CNC / VMC programming and future of electrical vehicles.
9. All BoS members have participated into the discussion on panel of Examiners for paper setting and assessment for the courses in S.Y. B. Tech & Second Year of M. Tech Program and suggested that it is to be decided by the Internal BoS members, BoS chairman in concern with BoE by keeping in mind the view of guidelines given by UGC and university and resolved to approve.
10. 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.
11. 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**