



VASIREDDY VENKATADRI  
INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)

Approved by AICTE and Permanently Affiliated to JNTU Kakinada, Accredited by NAAC with 'A' Grade & NBA Accreditation

## DEPARTMENT OF MECHANICAL ENGINEERING

BOS Minutes of Meeting held on 18-06-2022 from 2.00 PM.

### Agenda:

The following points are proposed to be discussed in the meeting

1. 4-1, 4-2 R19 syllabus
2. 3-1, 3-2 R20 syllabus
3. MOOCS courses in place of one of the professional electives.
4. M.Tech syllabus
5. Any other matter with permission of Chairman.

Members present in the meeting:

S.No	Name of the Bos Member	Designation	Affiliation	Signature
1	Dr. K. Satyanarayana	Chairman	Professor & HoD Dept of MEC, VVIT.	
2	Dr. N.Mohan Rao	University Nominee External BOS Member	Professor of MEC, UCEK, JNTUK	
3.	Dr. Sambhu Prasad Surapaneni	Subject Expert and External BOS Member	Prof & Principal, Dept of MEC, Pragati Engineering college Surampalem, Kakinada	
4	Dr. B. Raghu Kumar	Subject Expert and External BOS Member	Professor, Dept. of MEC PVPSIT(Autonomous) Kanuru, Vijayawada	
5	Dr. Y.V.S.S.V.Prasada Rao	Member	Director, Professor, Dept. of MEC, VVIT	
6	Dr. Naveen Ravela	Member	Director – Siemens Center of Excellence, Professor, Dept. of MEC, VVIT	
7	Dr. Tanneeru Srinivasa Rao	Member	Professor, Dept. of MEC, VVIT	
8	Dr. Md. Khaja Moiuiddin Farooki	Member	Professor, Dept. of MEC, VVIT	
9	Dr. K.V.L. Somasekhar	Member	Professor, Dept. of MEC, VVIT	
10	Dr. Mantrala K Mallik	Member	Professor, Dept. of MEC VVIT	
11	Mr. Surendra Mohan Kumar V Pulivarthi	Member	Assoc. Prof, Dept of MEC, VVIT	
12	Dr. Nageswara Rao Putta	Member	Assoc. Prof, Dept of MEC, VVIT	
13	Mr. Kiran Kumar Vernapu	Member	Assoc. Prof, Dept of MEC, VVIT	
14	Mr.Dadi V Seshagiri Rao	Member	Asst. Prof, Dept of MEC, VVIT	
15	Mr. M Nageswara Rao	Industry Expert and External BOS Member	M.D Bharath Building System, Guntur	
16	Ms. Tulasi Kotapati	Member, Alumnus	IBM Application Developer, Hyd	

Chairman  
(Prof. K. Satyanarayana)



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DEPARTMENT OF MECHANICAL ENGINEERING

**Minutes of the Meeting:**

The 3<sup>rd</sup> Board of Studies Meeting of Department of Mechanical Engineering was held on 18.06.2022, 2.00 pm, in the online mode through Microsoft Teams.

At the outset the Chairman of BOS, welcomed all the members and introduced internal BOS members to external BOS members. The meeting began with presentation of proposed curriculum by the chair. Further, the agenda has been circulated among the members and discussed, the corresponding resolutions made accordingly.

**Item-1:** Proposed 4-1 & 4-2 R19 syllabus was presented before the BOS members for verification.

**Resolution-1:** BOS members including Chairman verified the syllabus of both 4-1 and 4-2 semesters.

1. The Committees is of the opinion to include latest trends such as fuel injection system to be introduced in the syllabus of **Automobile Engineering**.
2. The committee renamed the third unit of the course titled **Computational fluid dynamics** as “Finite difference Methods” in place of “Aspects of Discretization”.
3. The committee suggested incorporating advanced topics in maximum possible subjects, to fulfill the industry needs.
4. “Undamped free vibrations” of Single Degree of Freedom and “damped free vibrations” of Single Degree of Freedom were introduced as 1 & 2 units in **Mechanical Vibrations** as per the committees’ suggestions.

**Item-2:** Proposed 3-1 & 3-2 R20 syllabus was presented before the BOS members for verification.

**Resolution-2:** BOS members including Chairman verified both 3-1 and 3-2 semesters, as a part of implementing the suggestion of incorporating advanced topics, the following subjects are modified or added with new contents

In **Advanced mechanics of solids:** 3-D stress analysis was placed in 1<sup>st</sup> unit

In **Refrigeration and Air conditioning:**

**1<sup>st</sup> Unit** - Methods of refrigeration -Necessity of cooling the airplane, Methods of air refrigeration systems detailed syllabus was given .

**3<sup>rd</sup> Unit** - Types of Vapour compression Cycles, Actual Vapour compression Cycle - detailed syllabus was given.

**4<sup>th</sup> Unit:** Steam Ejector, Analysis & efficiencies used in steam jet refrigeration system was added .

**Item-3:** Change of name of **Design and Analysis Lab** to **Computation and Simulation Lab** in 3-2 semester R20 was proposed.

**Resolution-3:** BOS members including Chairman accepted the proposal.



**Item-4:** It was proposed to introduce MOOCs Course through NPTEL/ SWAYAM platform in the place of one of the professional electives.

**Resolution-4:** BOS members accepted to introduce MOOCs Course through NPTEL/ SWAYAM platform with a minimum duration of 12 weeks in place of professional elective.

It was also suggested to offer offline courses as an alternative choice for the benefit of students.

**Item 5:** Review of MOOCs guidelines

Prof N. Mohan Rao Sir, informed that, at most TWO MOOCs courses may be done by the R19/R20 regulation students.

The GUIDE-LINES for doing MOOCs courses are revised as below and unanimously approved the committee.

- As the MOOCs courses are made optional for the R20 students, the PE-2,3 are compiled with list of courses containing MOOCs NPTEL/SWAYAM as one of the options, as advised at institution level.
- Students can opt for any MOOCs course from the pool of Courses of 12 weeks duration, as prepared by the BOS at the beginning of the semester.
- List of organizations offering MOOCs Course(s), will be announced by the respected BOS, at the time of commencement of the class work of II-II in case of R20.
- **At most TWO MOOCs courses shall be done by the students in R20.**
- For R19, the students can either register for MOOCs or its equivalent course in conventional mode and gets pass grades.
- For R20 the MOOCs category course can be registered in any NPTEL spell that **can be completed during 5<sup>th</sup> to 7<sup>th</sup> semesters inclusive.**
- Upon the successful completion of MOOCs course, the student has to submit the certificate, before the last Instruction day of concerned batch, final year first sem. A separate marks memo will be issued for the MOOCs course(s) completed.
- If the student fails to submit the MOOCs certificate, before the end of his final year second semester, it will be treated as a FAILURE in concerned MOOCs course.

**Resolution 5:** The committee unanimously approved the revised guidelines of MOOCs exactly as that of JNTUK.

**Item-6:** Proposed M.Tech (Machine Design) syllabus is presented.

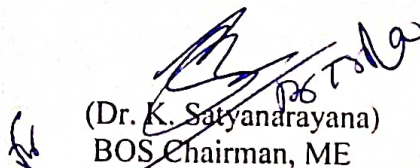
**Resolution-6:** BOS Committee accepted the proposed M.Tech syllabus (Machine Design)

**Item 7:** Any other with the permission of Chair.

As no other points rose by the members, the meeting ended with concluding and read-out of excerpts by the chairman of BOS of Mechanical Engineering.

With the presentation of vote of thanks by the chairman, the online meeting concluded at 5.00 pm.

The entire proceedings are recorded as video and stored in the department.

  
(Dr. K. Satyanarayana)  
BOS Chairman, ME