

Agenda for 8th Meeting of Board of Studies for B. Tech. (Mechanical Engineering) on 10.06.2019 at 2:15 PM

1. Action taken report on minutes/ resolutions of 7th BOS meeting.
2. Report on implementation of autonomy with respect to syllabi & academic regulations for III B. Tech (under SVEC16).
3. Academic Calendar for II, III and IV Year B.Tech for 2019-20.
4. Vision and Mission of the Department, PEOs, POs & PSOs and Course Structure (All 4 years) of B. Tech. Program under SVEC-19 Curriculum.
5. Administrative set-up for B. Tech Program.
6. Syllabi with Course Objectives & Course Outcomes, Lesson Plans and Model Question Papers for Courses of I B. Tech (Under SVEC-19).
7. Panel of Examiners for Question paper setting for I B.Tech courses (Under SVEC-19).
8. Implementation of Teaching, Learning and Evaluation Process.
9. Substitute Courses
10. Research Activities.
11. Faculty Development Activities.
12. Staff Development Activities.
13. Student Development Activities.
14. Student Support Systems.
15. Extension Activities.
16. Any other item.



Prof. T. HARI PRASAD

Chairman, BOS (ME)

Dr. T. HARI PRASAD
Professor & BOS Chairman
Department of Mechanical Engineering
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(Autonomous)
Sree Sainath Nagar TIRUPATI-517 102
Chittoor District, Andhra Pradesh

10th June, 2019

Minutes of the 8th Board of Studies Meeting



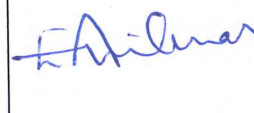
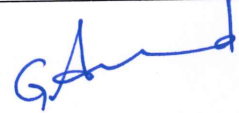
Date : 10th June, 2019

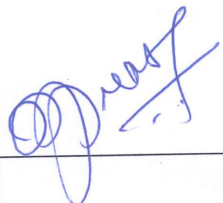





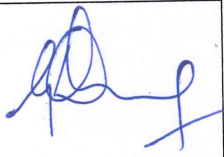

Time : 2.15 PM

Venue : CAM Lab, Dept. of Mechanical Engineering

Dr. T. Hariprasad, Chairman, Board of Studies chaired the meeting and welcomed all the members to the 8th Board of Studies meeting in the Department of Mechanical Engineering.

MEMBERS PRESENT

Sl. No.	Name of the BOS Member	External/Internal	Signature
1	Dr.T.Hari Prasad Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Chairman, BOS	
2	Prof. K. Govindarajulu Professor JNT University Anantapur, Ananthapuramu.	External Member (JNTUA Nominee)	
3	Dr. J M Mallikarjuna Professor Dept. of ME, IITM, Chennai.	External Member (AC Nominee)	
4	Dr. Anil Kumar E Head & Associate Professor Dept. of ME, IITT, Tirupati.	External Member (AC Nominee)	
5	Dr. Anand Gurupatham Deputy General Manger Renault – Nissan Technology Business Centre Pvt Ltd, Chengalpattu.	External Member (Industry Expert)	

Sl. No.	Name of the BOS Member	External/ Internal	Signature
6	Mr.M.Rupesh Design Engineer, Terex India Private Limited, Bangalore.	External Member (Alumni)	
7	Dr. K.C.Varaprasad Professor & Head, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
8	Dr. A.K.Damodaram Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
9	Dr. R. Satya Meher Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
10	Dr. K. Lakshmi Narashimhamu Assistant Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
11	Dr. J.S.Binoj Associate Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
12	Dr. M.Baburaj Associate Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
13	Dr. R. L. Krupakaran Assistant Professor(SL), Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
14	Mr.G.Dileep Kumar Assistant Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
15	Mr. M. Gangaraju Assistant Professor, Department of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	

The Chairman (BOS) briefed about the profile of the Mechanical Engineering Department through his presentation. Further, the discussion on the items mentioned in the Board of Studies meeting agenda was taken up and the following resolutions mentioned in the subsequent paragraphs were passed by the external and internal BOS members.

ITEM NO.1

Action taken report on minutes/ resolutions of 7th BOS meeting

The action taken report on the suggestions made by the Honorable members in the earlier BoS meeting was presented.

Sl. No.	Minutes of BOS Meeting held on 24-03-2017	Action Taken
1.	Discussion was made on AICTE model curriculum and the induction programme introduced and suggested adopt AICTE model curriculum and Induction program with changes.	Suggestion implemented.
2.	Guiding more number of projects is very difficult for faculty members. It is preferable to confine to a maximum of two projects per faculty.	Suggestion implemented.
3.	Recheck the importance of Biology for Engineering Programme and if required, syllabus need to be framed as per engineering applications by taking utmost care.	Suggestion incorporated.
4.	Suggested to do summer internship in the campus also in addition to the Industries.	Suggestion implemented.
5.	Core subjects and laboratory courses should be given more weightage while implementing AICTE model curriculum despite dilution as suggested in AICTE model curriculum.	Suggestion implemented.

The members agreed with the proceedings and the action taken against the suggestions made in the previous meeting.

ITEM NO.2

Report on implementation of autonomy with respect to syllabi and regulations (SVEC-16: III B.Tech.)

In executing SVEC-16 for III B.Tech., no difficulties were found in teaching and learning practice of theory and laboratory courses. The same is conveyed to the members.

ITEM NO.3

Academic Calendar for II, III and IV Year B.Tech for 2019-20

Members of the board perused and approved the academic calendar for II, III & IV B.Tech, I & II Semesters. The members of BOS felt that deliberations/ changes if any required may be submitted for discussion in next Academic Council or Governing body meeting.

ITEM NO.4

Vision and Mission of the Department, PEOs, POs & PSOs and Course Structure (All 4 years) of B. Tech. Program under SVEC-19 Curriculum

The following suggestions/recommendations were given by the external BoS Members. The BOS members suggested to:

I B.Tech, I sem(ME)

- Remove water treatment unit from the Engineering Chemistry subject of I B.Tech, I semester. The contents of Water Treatment included in the syllabus are not much relevant to Mechanical Engineering students.
- Add fuels lab experiments in engineering chemistry lab, as the students of Mechanical Engineering will be dealing lubricants in Tribology and IC engine subjects.
- Give exposure to Drawing tools through manual drawing. The members appreciated the method of teaching the present CAED subject.
- Write the syllabus of Computer Aided Engineering Drawing (CAED) first and then bottom to the syllabus the list of exercises may be listed, so that the faculty may teach as per the list of exercises prescribed. The members appreciated SVEC14 & SVEC16 CAED syllabus and methodology followed.

I B.Tech, II sem(ME)

- Change the total syllabus of Engineering Mechanics of Mechanical Engineering. Few topics found to be inappropriate to study in first year. Stresses and Strains, Thin and Thick cylinders topics are no way relevant

to mechanics subject. These topics may be incorporated in Strength of Materials subject.

- Further, the members suggested to add dynamics oriented topics in Engineering Mechanics subject. These concepts are mandatory to study by a Mechanical Engineering student. The title of the Subject may also be changed as "Basics of Engineering Mechanics". In addition the members felt that Engineering Mechanics subject may be separated for CIVIL and ME students. The members felt that, even in IIT Tirupati also, the same is being followed.
- Appreciated for introducing Biology concepts in the syllabus.
- Appreciated for incorporating the appropriate topics in Physics.
- Remove the concepts of Metallurgy and shift the same in another semester. The members felt that, the contents incorporated are found to be difficult for a first year student to learn. Further, the members suggested to copy the same subject syllabus from APSHE as it is.
- Appreciated for the list of experiments listed in Applied Physics lab.
- Remove the Experiment No. 14 i.e **"Preparation of metal powders by Ball mill Machine"** from the list of experiments.

II B.Tech, I sem(ME)

- No suggestions were given on the courses and appreciated the incorporation of appropriated courses.

II B.Tech, II sem(ME)

- No suggestions were given on the courses and appreciated the incorporation of appropriated courses.

III B.Tech, I sem(ME)

- In course structure of III B.Tech, I sem, it is observed that in core subjects and Professional Elective -I, the Gas Turbines subject is repeated, Hence, the members informed to shift the PE-I subject (Gas Turbines and jet propulsions) to next semester. Overlapping of same topics should not be seen in the same semester.
- The external members suggested to swap IC Engines and Gas turbine theory and Lab courses with Heat Transfer theory and Lab followed by applied thermodynamics.
- The external members have gone through the course structure and informed to follow the order of Open Elective as OE1, OE2 etc.

III B.Tech, II sem(ME)

- No suggestions were given on the courses and appreciated the incorporation of appropriated courses.

IV B.Tech, I sem(ME)

- No suggestions were given on the courses and appreciated the incorporation of appropriated courses.

IV B.Tech, I sem(ME)

- No suggestions were given on the courses and appreciated the incorporation of appropriated courses.

Minor Degree Courses:

- Frame the syllabus in all the courses of Minor degree with basic concepts only. The students of other Departments may not require detail aspects.
- In minor degree subjects, instead of Heat Transfer subject, the BOS members suggested to add Fluid Mechanics topics along with Heat Transfer topics and make it as one subject.
- Further in minor degree subjects, the members suggested to remove Heat Transfer Lab and make it as Applied Thermodynamics lab where this lab covers all the experiments from IC engines, R&AC, HT and Automobile.
- In the same minor degree courses, the BOS members suggested to rename the title of Kinematics of Machinery as Theory of Machines, where the students will come across all the areas of Kinematics and dynamics.
- Incorporate manufacturing concepts which are missing in the Minor Degree course subjects proposed. The members proposed to have basics of Workshop Technology - I & II concepts.

Honors Degree Courses:

- Merge Product Design & Development and Product Life Cycle Management subjects into one subject. These two subjects found to be one and the same in many of the concepts.

Basics of Civil and Mechanical Technology:

- Add basic concepts from Engineering Mechanics subject. (Force calculation, kinetics, kinematics etc.)
- Add all basic manufacturing processes in one unit.
- Finally, the members suggested to have Thermal Engineering, Mechanics, manufacturing and Power transmission concepts in BCMT syllabus.
- Text Books and Reference books can be revised.

ITEM NO.5

Teaching, Learning and Evaluation Procedures

The members expressed satisfaction over the teaching, learning, and evaluation procedures. The members have appreciated the good practices followed by the department in conducting diagnostic test, formative tests, remedial and reinforcement classes as well as offering of the necessary add-on courses.

ITEM NO.6

Research Activities

The members appreciated progress made by research clusters on knowledge domains and expressed satisfaction in regard to the research progress. Establishment of Micromachining research lab was greatly appreciated by the members present.

ITEM NO.7

Faculty Development Activities

BoS members appreciated the Faculty Development activities conducted by the Department.

ITEM NO.8

Staff Development Activities

BoS members appreciated the for conducting separate training programme for staff. Training program on Computer aided metrology will definitely help them to assist students in the lab exercises.

ITEM NO.9

Student Development Activities

The chairman (BOS) presented the activities of Creative Association of Mechanical Engineering Students (CAMS), SAE India Professional Body activities, Indian Society for Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) Professional Body activities, Indian Welding Society (IWS) Professional Body activities, Institute of Engineers (IE), APSSDC-Siemens, Dassault Systemes-3D Experience Centre, Expert and Guest Lecturers organized etc. Hon'ble members appreciated the efforts of the department in enriching the students suited to latest trends.

ITEM NO.10

Student Support Systems

The Chairman (BOS) presented the counseling system, placement related training, remedial classes, entrepreneurship activities and IIIC activities. Members satisfied with the efforts.

ITEM NO.11

Extension Activities

The Chairman (BOS) submitted that the department is encouraging students to participate in various community oriented activities. NSS Volunteers have participated in Blood Donation Camp, Cashless Transaction campaign etc. The external members expressed their satisfaction over the steps taken in involving students over societal activities.

ITEM NO.12

Substitute Subjects

Members resolved to authorize the Chairman, BOS in Mechanical Engineering to finalize the substitute subjects as and when required and forward the same to the Chairman, Academic Council for further action.

ITEM NO.13

Discretion for minor changes

The Board authorised the chairman BOS to effect any minor changes as per the need in syllabi and later intimate these changes to the members of the BOS.

Meeting concluded with thanks to the members by Dr,K.C.Varaprasad, Head of the Department.



(Dr.T.Hariprasad)

Chairman, BOS (ME)

CHAIRMAN
Board of Studies
Department of Mechanical Engineering