

→ Minutes of the BOS Meeting held on 04/03/2017 (Tuesday) at 12:20 PM with Dr. P. Suryanarayana Raju, Professor & Head, Department of Mechanical Engineering, MITS in the chair.

### Members Present :-

1. Dr. P. Suryanarayana Raju - Professor & Head  
Department of M.E, MITS, Madanapalle.
2. Dr. R. V. Chalam - University Nominee.  
Professor, Dept. of ME, NIT, Warangal.
3. Dr. R. Thundil Karuppa Raj - Subject expert  
Professor, VIT, Vellore.
4. Mr. S. Sankar Reddy - Alumni  
Assistant Manager, M/S  
BEML Limited, Bangalore.
5. Dr. K. G. Sudhakar - internal member  
Sr. Professor, Dept. of M.E., MITS
6. Dr. G. Harinath Gowd - internal member  
Professor & COE,  
Dept. of M.E., MITS
7. Dr. John Banuch. L. - internal member  
Professor, Dept. of M.E., MITS
8. Dr. K. V. P. Chakradhar - internal member  
Associate Professor,  
Dept. of M.E., MITS

9. Dr. T. Vishnu Varadhan — internal member  
Associate Professor, Dept. of M.E., MITS.
10. Dr. A. Balaraju — internal member  
Associate Professor, Dept. of M.E., MITS.
11. Dr. Ch. Srinivasa Rao — internal member  
Associate Professor, Dept. of M.E., MITS.
12. Dr. V. Girish Chandran — internal member  
Sr. Assistant Professor,  
Dept. of M.E., MITS.
13. Mr. Rajendu Peyyala — internal member  
Associate Professor,  
Dept. of M.E., MITS.

→ BOS members were given course handouts that included syllabus of new course.

→ The following items are going to be placed before the BOS members for consideration and suggestions.

1) B.Tech - Mechanical Engineering - IV year (SEM-I & II) Course Structure and Syllabus.

2) Detailed syllabus for four newly added courses - PLM

- NDT

- TQM

- Metrology & measurements

→ The minutes of the meeting were recorded and mentioned below:

### I Discussion on IV<sup>th</sup> year (Sem I & II) Course structure:-

→ HOD gave a brief description of the proposed IV<sup>th</sup> year

Semester I & II course structure. It is proposed to have

IV<sup>th</sup> year } 3 core subjects, 2 discipline electives, 1 optional open elective,  
SEM - I } 2 labs and 1 miniproject/internship for IV<sup>th</sup> year sem I

→ Credits for each core subjects are 3

credits for each lab are 2

credits for miniproject/internship is 2

Total credits = 24

IV year

SEM - II } 2 options were mentioned

option - I: Full semester Industry Internship (FSII) (20 credits) & Technical Seminar (2 credits)

option - II: 1 discipline elective (3 credits) 1 open elective (3 credits) project work (14 credits) and technical seminar (2 credits)

Total credits = 22.

## II. Discussion on syllabus for IV<sup>th</sup> year - SEM I :-

→ The following core subjects were finalized for IV<sup>th</sup> year SEM - I

1) EOT 2) Metrology and Measurements (M&M) 3) CAD/CAM

→ Discipline electives :- M&M offered as new core subject.

- Instead of 3 currently discipline choices, 4 discipline electives were offered.

- In discipline elective II, A&R was added.

In discipline elective III, NDT was added.

→ Discussion on core courses :-

EOT :- BOS members suggested to add Big M, nonlinear programming in unit

- include game theory, Taguchi & DOE but since these were covered in subjects like OR & TQM, it was agreed not to include the same.

- Rest of the syllabus was reviewed and it was accepted.

M&M :- GD&T was included in the first module & was accepted by BOS members

- Rest of the syllabus was reviewed and it was accepted

CAD/CAM :- BOS members suggested to mandatorily include one design

and one analysis package in the syllabus

→ Discussion on discipline elective II:-

Mechanical Vibrations:- Syllabus was reviewed & it was accepted.

MEMS:- Syllabus was reviewed & it was accepted

FPS:- suggested to add FPS lab in next curriculum and rest of syllabus <sup>accepted</sup>

Automation & Robotics:- Syllabus was reviewed & it was accepted

→ Discussion on discipline elective III:-

Solar Thermal Process Engineering:-

- BoS suggested to add solar air heaters, dryers in Unit-V

- Rest of the syllabus was reviewed & it was accepted

R&AC:- BoS members suggested to revise the name of unit-III

- Rest of syllabus was reviewed & it was accepted

Production, Planning & Control:- Suggested to include topics like introduction to softwares like SAP, material handling equipments to syllabus & rest accepted

NDT:- Syllabus was reviewed and accepted

→ Discussion on open elective III, labs & miniproject was not carried out & accepted as it is.

III. Discussion on syllabus for IV year- SEM II:-

→ Discussion on discipline elective IV - Automotive Technology:-

- BoS members suggested - to look & revise the syllabus content in line with industry need & latest technologies.

- commented the syllabus is light for final year engineering curriculum

Entrepreneurship:- Syllabus was reviewed and it was accepted.

TQM:- Syllabus was reviewed and it was accepted.

PLM:- Syllabus was reviewed and it was accepted.

→ Discussion on open elective IV:- BoS members suggested to include new course on Power Quality in curriculum.

IV. Discussion on virtual labs:-


- BoS members suggested virtual labs cannot be used to replace existing labs in current curriculum & these can be used to enhance the existing labs.

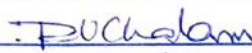
→ Dr. R.V. Chalam suggested that student <sup>must</sup> conduct experiment physically to get the feel of machine and experimentation.

→ Mr. S. Sankar Reddy suggested that students may not be comfortable and their progress in learning may not be monitored effectively by virtual labs. &


→ BOS members suggested to include Engineering Mechanics subject in I<sup>st</sup> year in R18 curriculum. 23

HOD thanked all the members for their active participation.

1. Dr. P. Suryanarayana Raju :  04/03/17

2. Dr. R.V. Chalam :  4/3/2017

3. Dr. R. Thundil Karuppa Raj :  4/3/2017

4. Mr. S. Sankar Reddy :  04/03/17.

5. Dr. K.G. Sudhakar : 

6. Dr. G. Hannath Gowd : 

7. Dr. John Bazuch. L. :  04/03/17

8. Dr. K.V.P Chakradhar :  4/3/17

9. Dr. T. Vishnu Vardhan : 

10. Dr. A. Balaraju :  4/3/17

11. Dr. Ch. Srinivasa Rao

:

USM  
13/03/17

12. Dr. V. Girish Chandran

:

SL  
04/3/17

13. Mr. Rayudu Peyyalla

:

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