

→ Minutes of the BOS Meeting held on 30 June, 2018 (30/06/2018) at 11:00 AM 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. Anil Kumar Emedabathuni - Subject expert.  
Associate Professor, IIT Tirupathi
3. Dr. B. Venkatesam - Subject expert  
Associate Professor, IIT Hyderabad
4. Mr. D. Anand Swaroop Kumar - Alumni  
Product & Application Engineer  
CBRE South Asia Pvt. Ltd.
5. Dr. Govindha Hemanth Kumar - Internal member  
Research Professor  
Dept. of M.E., MITS
6. Dr. Prasanna Kumar Duvvi - Internal member  
Professor  
Dept of M.E., MITS
7. Dr. C. Yuvaraj - Internal member  
Professor & Principal  
Dept. of M.E., MITS

8. Dr. Senthil Kumar JS — Internal member  
Professor  
Dept of M.E., MITS
9. Dr. S. Thamizhmanii — Internal member  
Professor  
Dept of M.E., MITS
10. Dr. G. Harinath Gowd — Internal member  
Professor & COE  
Dept. of M.E., MITS
11. Dr. Uday Krishna Ravella — Internal member  
Associate Professor  
Dept. of M.E., MITS
12. Dr. S. Baskaran — Internal member  
Associate Professor  
Dept. of M.E., MITS
13. Dr. Manvendra Tiwari — Internal member  
Associate Professor  
Dept. of M.E., MITS
14. Dr. Kirana Kumara P — (Assistant) Internal member  
Assistant Professor  
Dept. of M.E., MITS
15. Dr. R. Prithivi Rajan — Internal member  
Assistant Professor  
Dept. of M.E., MITS



16. Dr. P. Sivaiah  
- Internal member  
Assistant Professor  
Dept. of M.E., MITIS
17. Dr. B. Chakradhar  
- Internal member  
Assistant Professor  
Dept. of M.E., MITIS
18. Dr. P. Naresh  
- Internal member  
Assistant Professor  
Dept. of M.E., MITIS
19. Dr. Arun Nallaiappan T  
- Internal member  
Assistant Professor  
Dept. of M.E., MITIS
20. Dr. V. Shanker Nath  
- Internal member  
Assistant Professor  
Dept. of M.E., MITIS
21. Dr. N. Shiva Kumar  
- Internal member  
Assistant Professor  
Dept. of M.E., MITIS
22. Dr. Manas Kumar Pal  
- Internal member  
Assistant Professor  
Dept. of M.E., MITIS

- BOS Members were given handouts that included syllabus prepared as per ~~new~~ AICTE new norms
- The following items are going to be placed before the BOS members for consideration and suggestions

- 1) B.Tech - Mechanical Engineering - I<sup>st</sup> year (Sem I & II) Course structure and syllabus & II, III, IV year course structure.
- 2) M.Tech - Mechanical Engineering - I<sup>st</sup> year & II<sup>nd</sup> year (Sem I & II) Course structure and syllabus.

→ The minutes of the meeting were recorded and mentioned below

\* HoD gave a brief description on proposed I<sup>st</sup> year (Sem I & II) Course structure & syllabus as per AICTE new credit structure of 160.

Suggestions from BOS members on entire structure:-

\* BOS members suggested to ~~re~~ consider credits for PC & PE as together.

\* ~~Suggested to~~ ~~consider~~ ~~credits~~ ~~for~~ ~~PC~~ ~~&~~ ~~PE~~ ~~as~~ ~~together~~. *Pr. Venkatesh*

\* Suggested to consolidate KOM & DOM, MD-I & MD-II, TOM-1 & TOM-2 as one subject respectively and incorporate the subject in-depth in electives.

\* BOS members told that the main idea of reducing credits from 180 to 160 is to give more time to students for self-learning.

\* Suggested to implement integrated course structure i.e., theory+lab. Theory will be taught first followed by lab. They also suggested to look after logistics before implementing that integrated course.

(A) I<sup>st</sup> year:-

1) Induction program, Holistic Development activities & virtual laboratory

- Approved with the existing syllabus.



Semester 1 :-18MAT101 Engineering Calculus

- Unit 1 & Unit 2 titles should be different [Chapter names to be updated]
- Bos members suggested to give names to topics as specific instead of generic name which will help the external person to set the question paper.

18PHY101 Engineering Physics

- Unit -4 title name should be replaced with the name "Electromagnetism and Optics."
- Replace the topics in unit-4 [from diffraction to till end of chapter] with introduction to electro-magnetism.
- Bos members suggested to consult with Physics department about the feasibility on suggestions made.

18ME101 Engineering Graphics

- Approved with the existing syllabus
- Bos members suggested to ~~cons~~ take opinion from other departments to incorporate CATIA instead of AutoCAD for 1<sup>st</sup> yr. students and implement accordingly

18CSE101 Python programming

- Approved with the existing syllabus

18PHY201 Physics Lab

→ Approved with the existing syllabus

18CSE201 Python Programming Lab

→ Approved with the existing syllabus

18ME201 Engineering Workshop

For Mechanical & Civil :-

→ Update objectives and course outcomes according to the suggestions given below by BOS members.

Group A :- Include introduction to 3D printing as exp.13  
Demo on 3D printing at the end of exp.13.

Group B :- Rewrite the name of exp-4 in a neat & elaborative way.

For ECE & EEE :-

Group A :- Remove exp 3 & exp. 6 and replace them with demo on 3D printing & CNC machine.

→ Update course objectives and course outcomes accordingly

Text books :- Verify and correct the author name of textbook 1

Semester II :-

18ENGL01 English for Professional Purposes

→ Approved with the existing syllabus



ISMAT107 :-

- Change course name
- Separate paragraph from Laplace Transform till end of chapter.

18CHE101 Engineering Chemistry

→ BOS members suggested to keep the entire chapter <sup>V</sup> into three paragraphs.

Paragraph 1 :- From Cement materials to pour point [engg. materials]

Paragraph 2 :- From Nano materials to SEM [Nano Characterization]

Paragraph 3 :- Remaining contents [Applications of nanomaterials]

Reference Books :-

- Make 'C' capital in Engineering Chemistry for Book 4.
- Make the formatting consistent.
- In Unit III, BOS members suggested to replace the name of "Magnetic resonance imaging" topic to "Nuclear Magnetic resonance and Magnetic Resonance Imaging."

18EEE101 Basic Electrical Engineering

→ BOS members suggested to include theory more in atleast any three units.

18CSE102 C Programming and Data Structures

→ Approved with the existing syllabus.

18CHE 201 Engineering Chemistry Lab

→ Approved with the existing syllabus

18EEE 201 Electrical Engineering Lab

→ Approved with the existing syllabus

18CSE 102 C Programming and Data Structures Lab

→ Approved with the existing syllabus.

(B) II, III, IV year <sup>tentative</sup> Course Structure :-

Comments by BOS members :-

- Dr. Venkatesam suggested lab courses may be offered in the following semester after the corresponding Theory subjects.
- Dr. Venkatesam pointed the credits in II year I semester are little high. Suggested to rework in having uniform credit distribution across the semesters (3-6 semesters)
- Dr. Venkatesam suggested to explore the possibility of reshuffling thermal and hydraulics course and corresponding lab with DE between 7 and 6 semesters.
- Dr. Anil Kumar E suggested to rename IC engine lab as Applied Thermal Engineering lab.
- Dr. Anil Kumar E <sup>recommended</sup> Fluid Mechanics syllabus to be revisited for possible condensation and adding topics on Fluid Machinery.
- Dr. Anil Kumar E suggested to introduce Fluid Mechanics lab in an earlier semester in the curriculum.



### General comments :-

- Dr. Anil Kumar E and Dr. B. Venkatesam collectively suggesting in have few more courses into mandatory courses by combining two courses like KoM and DoM as Theory of Machines so that another course can be added.

### Syllabus comments:-

- Dr. Venkatesam suggested to refer IIT Hyderabad for syllabus of Theory of Machines.
- BoS agreed that with the IAAB comment of having FEM mandatory courses by pushing CAD/CAM to elective.

### (C) M.Tech. Syllabus Comments on M.Tech Curriculum:-

- Dr. Venkatesam suggested to change the course name "Rapid Prototyping" to "Additive Manufacturing".

B. Venkatesh




- Dr. Venkatesam recommended to incorporate Numerical Methods for Manufacturing as a mandatory course (syllabus available with IIT Hyderabad for M.Tech IMD).
- Also, CAE lab may be introduced as follow up lab course for the Numerical Methods for manufacturing theory course.

- (D) Vision & Mission Statements, PEO'S and PSO'S, which were revised are approved.


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HOD thanked all the members for the active participation.

1. Dr. P. Suryanarayana Raju :  20/06/18

2. Dr. Anil Kumar Emadabathuni - Anil Kumar

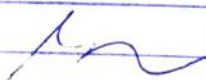
3. Dr. B. Venkatesam : B. Venkatesam

4. Mr. D. Anand Sarasop Kumar : 

5. Dr. Govindha Hemanth Kumar : 


6. Dr. Prasanna kumar Duvvi : D.L. Prasanna Kumar


7. Dr. C. Yuvaraj : 

8. Dr. Senthil Kumar J.S : 

9. Dr. S. Thamizhmani :  20/06/18





10. Dr. G. Harinath Gowd : 

11. Dr. Uday Krishna Ravela : 

12. Dr. S. Baskaran : 

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14. Dr. Kirana Kumara P : 

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