
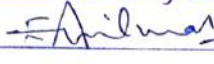

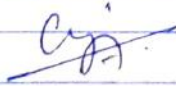


→ Minutes of the BoS Meeting held on 15<sup>th</sup> June, 2019 (15/06/19),  
at \_\_\_\_\_ with Dr. Suryanarayana Raju, Professor & Head of  
Department of Mechanical Engineering, MITS in the chair.

### Members Present

1. Dr. P. Suryanarayana Raju — Professor & Head  
Department of ME, MITS, Madanapalle  
  
15/06/19
2. Dr. Anil Kumar Emadabathuni — Subject Expert, HOD, Dept. Mech.  
Associate Professor, IIT Tirupati  
  
15/06/2019
3. Mr. D. Anand Swaroop Kumar — Alumni,  
Product & Application Engineer  
CBRE South Asia Pvt. Ltd.  
  
15/06/2019
4. Dr. Prasanna Durvi — Professor, Internal <sup>Member</sup> Meeting  
Department of ME, MITS, Madanapalle.  
D.L. Prasanna Kumar
5. Dr. C. Yuvaraj — Internal Member  
Professor & Principal  
Department of ME, MITS, Madanapalle.  

6. Dr. S. Thamizhmani — Internal Member  
Professor,  
Department of ME, MITS, Madanapalle.
7. Dr. G. Harinath Gowd — Internal Member  
Professor & COE,  
Department of ME, MITS, Madanapalle.

8. Dr. Uday Krishna Ravella — Internal Member,  
Associate Professor,  
Department of ME, MITS, Madanapalle.
9. Dr. Chinige Sampath Kumar — Internal Member,  
Sr. Assistant Professor,  
Department of ME, MITS  
Madanapalle.
10. Dr. H. M. Vishwanatha — Internal Member,  
Sr. Assistant Professor,  
Department of ME, MITS, Madanapalle.
11. Dr. Dubba Santhosh Kumar — Internal Member,  
Sr. Assistant Professor,  
Department of ME, MITS, Madanapalle.
12. Dr. Srijan Sengupta — Internal Member,  
Sr. Assistant Professor,  
Department of ME, MITS, Madanapalle.
13. Mrs. Pawan Kumar — Internal Member,  
Sr. Assistant Professor,  
Department of ME, MITS, Madanapalle.
14. Dr. Bhisham Kumar D — Internal Member,  
Sr. Assistant Professor,  
Department of ME, MITS, Madanapalle.



15. Dr. Saif Akram

—

Internal Member,  
Sr. Assistant Professor,  
Department of ME, MITS, Madanapalle

- BOS members were given handouts that included syllabus prepared as per APSCTE norms
- The following items are going to be placed before the BOS members for consideration and suggestions
- (i) B.Tech - Mechanical Engineering - II<sup>nd</sup> yr (sem I and II) course structure and syllabus and also III & IV yr course structure.
  - (ii) M.Tech - Mechanical Engineering -

→ The minutes of the meeting were recorded and is as mentioned below.

(A) Overall structure.

\* HOD presented the brief description on the proposed II yr (sem I and II) course structure and the syllabus prepared as per norms of APSCTE.

The following suggestions were made on the overall course structure (II, III and IV yr)

- (i) In order to choose a proper course from the list of open electives, mentor guidance plays important role & mentor should give proper guidance to students.
- (ii) Open elections may be attested by the mentor in an registration form during the start of semester.
- (iii) More courses may be included as admit courses.
- (iv)

~~(v)~~ ~~(vi)~~ ~~(vii)~~ ~~(viii)~~

(iv) Subject code 18ME114 (Heat transfer) may be moved to 3-1 semester and 18ME112 (Applied thermodynamics) may be moved to 3-2 semester.

(v) Take care of formatting issues throughout.

(vi) Open elective courses may also be chosen from the same department courses also.



## (B) Syllabus.

18ME103 Engineering Mechanics.

- \* Approved as it is.

18ME104 Basic Thermodynamics.

- \* Swap unit IV & unit V
- \* Rename "Properties of pure substances" as "thermodynamic cycles".
- \* Rename "Properties of Gas mixture and Psychrometry" as "Thermodynamic Relations and mixture of gases".
- \* Take care of format issues.

18ME102 - Design thinking and Production Innovation.

- \* L-T-P change: from 3-0-0 to 2-1-0
- \* Prof. Krishnaiah from IIT-Tirupati, may be consulted for further suggestions and advice.
- \* Faculty may be trained on how to handle this subject.
- \* Tutorial sessions should be emphasized.

18ME105 Material Science and Engineering.

- \* Approved as it is.

18ME201 Material Science and Engineering Laboratory.

- \* Check on the availability of Equipment.
- \* Synthesis of powder metallurgy based samples may be moved to manufacturing process laboratory.
- \* Reframe experiments as Study of microstructure of powder metallurgy based samples and Metal-matrix composites.

18ME202 3-D modelling laboratory

- \* Add reference texts book list.
- \* Similar suggestions may be extended to all the practical courses.

18ME106 Mechanics of solids

- \* Approved as it is

18ME107 Manufacturing Process.

- \* Approved as it is

18ME108 Theory of Machines.

- \* Unit III: Include "Governors".

18ME109 Fluid Mechanics and Hydraulic Machinery

- \* Approved as it is.

18ME203 Mechanics of solids Laboratory

- \* Add reference text books.

- \* Theory on Springs need to be covered in "Engineering mechanics" or "Mechanics of solids."

18ME204 Dynamics and Electrical Machines Laboratory

- \* Approved as it is.

18ME205 Manufacturing Process Laboratory

- \* Include experiments on synthesis of samples via powder metallurgy route.
- \* Add reference text books.



## (C) M. Tech Structure &amp; Syllabus.

- \* Include one more subject on "Joining of Materials" in 2-1 semester.
- \* The "DFMA" syllabus has to be revised with emphasis on manufacturability of designing components.
- \* Syllabus from IIT-Tirupati may be referred for the aforementioned.
- \* Remove "Optimal Research" and replace it with advanced operation research in 2-1 semester.
- \* Suitable alternative may be chosen for 180EP306 "Waste to Energy".

## (D) General Comments

- \* All the four mandatory non-credit courses may be elective courses (Mandatory non-credit Electives). Students can complete these four mandatory courses at the time of their choice.



Srinivasan Raju P.  
BoS Chairman

Professor & Head

Department of Mech. Engg.