



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC - Autonomous)

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapuramu)
P.B.No. 14, Angallu, Madanapalle – 517325, Chittoor Dist., Andhra Pradesh, India.
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Department of Mechanical Engineering

Date: 18/5/2017

Composition and approval of Program Assessment Committee (PAC)

Following members are nominated and approved for constitutions of Assessment Committee (PAC).

1. Dr P Suryanarayana Raju, Head of the Department, Mechanical Engineering, MITS
2. Dr G Harinath Gowd, Professor, Mechanical Engineering, MITS
3. Dr Prasanna Kumar Duvvi, Professor, Mechanical Engineering, MITS
4. Dr S Baskaran, Associate Professor, Mechanical Engineering, MITS
5. Dr I Arun, Associate Professor, Mechanical Engineering, MITS

Responsibilities of the committee:

1. Monitors attainment of COs, POs and PSOs
2. PAC evaluates programme effectiveness and process necessary changes
3. Preparation of periodic reports, records on program activities, progress and status reports.

HoD/ME

Principal

Principal

**Madanapalle Institute of
Technology & Science
MADANAPALLE**

Copy to

- The Principal
- Vice Principal Academics
- Programme Assessment Committee
- Department File



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(An ISO 9001-2008 Certifies Institution)

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DEPARTMENT OF MECHANICAL ENGINEERING

Minutes of Meeting and Recommendations of PAC

Department PAC met on 03/06/2017 to discuss the attainment of outcomes for the Academic Year 2016-17. The following matters were discussed in the meeting.

Discussion related to CO Attainment

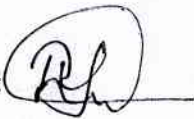
- 1) For the subject **Differential Equations & Laplace Transforms**, the course attainment for Co1, Co4 are not satisfactory. It is advised that care should be taken in the R18 Curriculum not to generalize the same concepts across all the branches and should tailor made according to the needs of the department.
- 2) **Mechanics of solids** still the co attainment is not satisfactory and the root cause is lack of Mechanics knowledge and therefore should try to fit in Mechanics as a separate subject in the R18 Curriculum.
- 3) **Thermodynamics** attainment is better than the previous year but needs further improvement.
- 4) In **Fluid Mechanics**, CO 2,4 ,5 and 6 are not attained as they include Reynolds transport theorem and conservation equations which require some knowledge of vector calculus. Faculty shall review requisite concepts from vector calculus. Similarly, the topics are vast to cover in-depth in one semester and curriculum needs to be verified accordingly in R18.
- 5) To improve the CO4 in **Applied Thermodynamics**, more number of problems need to be covered in the class on single and multi-stage air compressors gas turbines.
- 6) Since **Production Techniques -1** is made as a Mooc's course, CO1 to CO5 found to be not achieved and therefore the faculty has to interact with the students frequently to gage the understanding of the students.
- 7) In **Soft skills**, attainment of CO1, CO2 and CO4 are not satisfactory proper motivation need to be given to the students to improve their confidence level as they are from rural back ground.

- 8) To improve the CO1, CO4 AND CO5 attainment in **heat transfer**, the faculties should insist and help the students to use data book properly since heat transfer involves many formulas.
- 9) In **prime movers and fluid machines**, to attain CO1, more theory will be taken on fundamentals, basic principles and applications of fluid machines.
- 10) To improve CO4 in **Instrumentation and control system**, more theory need to be discussed on strain gauges and related applications.
- 11) Mini projects should be taken seriously, and the faculty should encourage the students to continue them in the major project.

Discussion related to PO attainment

- 1) Workshops and trainings are conducted to be provide additional training for the students in modern tool usage.
- 2) SAE student chapter to be started in the Department through which many students are participating in design competitions and other team events.
- 3) Other technical student clubs are also started to improve student participation in team events.
- 4) Additional verbal training is provided to the students.
- 5) Guest lectures by prominent engineering professionals are arranged for students so that they learn further extensions of basic concepts they learn in college and grow an appreciation for continuous learning.
- 6) Additional training is provided to students in final years which was aimed at improving their performance in technical rounds of campus placement drives.

1) Dr. Suryanarayana Raju Pakalapati, Professor and Head:



2) Dr. Harinath Gowd, Professor:



3) Dr. Prasanna Kumar, Professor:

D. C. Prasanna Kumar
3/6/18

4) Dr. Baskaran S., Assoc. Professor:

B. S. Baskaran
3/6/18

5) Dr. I. Arun, Assoc. Professor:




PRINCIPAL

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