



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC Autonomous)

Department of Mechanical Engineering
Industry Academic Alumnae Advisory Board



The Department of Mechanical Engineering at MITS (Madanapalle Institute of Technology & Science) has conducted an IAAB meeting on 2nd June 2019. The following internal advisory members have attended the meeting:

Dr. Ramanathan P,
Vice Principal Academics, MITS.

P. Ramanathan
26/6/19

Dr. Suryanarayana Raju,
Professor, Dept. of Mechanical Engg. MITS.

[Signature]
2/6/19
Head of the Department
Mechanical Engineering
Madanapalle Institute of Technology & Science
MADANAPALLE - 517 325

Dr. Prasanna K. L. Duvvi,
Professor, Dept. of Mechanical Engg. MITS.

D. L. Prasanna Kumar

Dr. Senthil Kumar,
Professor, Dept. of Mechanical Engg. MITS.

[Signature]

Dr. Uday Krishna Ravella,
Associate Professor, Dept. of Mechanical Engg. MITS.

U. K. Ravella
2/6/19

Dr. Naresh,
Assistant Professor, Dept. of Mechanical Engg. MITS.

[Signature]
2/6/2019

Dr. Srèjan Sengupta,
Assistant Professor, Dept. of Mechanical Engg. MITS

S. S. Sengupta
2-6-19

Dr. Shankarnath
Assistant Professor, Dept. of Mechanical Engg. MITS

V. Sankar
2/6/2019

Dr. Pavan Kumar
Assistant Professor, Dept. of Mechanical Engg. MITS

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Department of Mechanical Engineering Industry Academic Alumnae Advisory Board



Sunday, 2nd June 2019

AGENDA

1. Introduction -10:30 AM
2. Principal welcome message -10:35 AM
3. HoD message -10:45 AM
 - a) Overview of the Department
 - b) Best Practices
 - c) Overview of the curriculum development process
4. Charter for the Group -11:15 AM
5. Plan for the day -11:25 AM
- *TEA break* -11:30 to 11:40 AM
6. Discussion on Structure and Syllabi -11:40 AM to 1:15 PM
- *Lunch Break* -1:15 to 2:00 PM
7. Discussion on Structure and Syllabi -2:00 to 3:00 PM
8. Industry Trends -3:00 to 3:30 PM
 - a) Industry (Tools, Skills, Knowledge)
 - b) Alumnae (Tools, Skills, Knowledge)
 - c) Academic (Curriculum, Other Academic programs, Placement Challenges)
9. Review on Opportunities -time permitting
10. Placement & Internship Challenges -time permitting
11. Other discussions -time permitting
12. Vote of thanks

Head of the Department
Mechanical Engineering
Madanapalle Institute of Technology & Science
MADANAPALLE - 517 325

Resolutions:

1. Greeting from the chair.
2. Welcome note to following guests by Dean and HOD
 - a. Mr. Hari Prasad, Former Scientist Aeronautical Development Establishment (ADE), Bangalore
 - b. Dr. R. Thundil Karuppa Raj, Professor & Head, Automotive Engineering, VIT, Vellore
 - c. Mr. Rajesh Ry, Assistant General Manager, Hyundai R&D, Hyderabad
 - d. Dr. Shankar Reddy, Scientist DRDO, Hyderabad
 - e. Mr. Kalyan, Design Engineer, ERS Electronic GmbH, Germany
3. Introduction and briefing about the Institute by Dean and HOD
4. Presentation about IAAB meeting agenda and outline by Dean and Head
5. Presentation on highlights of the department, organizational chart at department level, expert board of the institute, faculty introduction, department committees, SWOC of the department etc.
6. Presentation on Review of process and results of outcome attainments by Dr. Suryanarayana Raju P
7. Discussion on Outcome Based Education(OBE)
 - a. Introduction to OBE
 - b. Outcomes of UG programme
 - c. Compliance of curriculum with outcomes
 - d. Assessment of outcomes (Cos and POs)
 - e. Results of Assessment and Actions Taken
 - f. Recommendations PAC
 - g. Solicitation of Advise
8. Seeking guidance on improving the strategies for improving OBE, suggestions to improve PEOs, PSOs, suggestions for improving attainment of outcomes and review of PAC recommendations.
9. Presentation on Review of student placements by Dr. K V Nagesha and Dr, Kulmani Mehar
 - a. Placements
 - b. Placements year wise
 - c. Placement companies both core and IT companies
 - d. Action plan for placements
 - e. Career Support Opportunities
 - f. APSSDC SIEMENS TSDI
10. Presentation on Student Mentoring System by Dr. V Shankernath
 - a. Professional guidance
 - b. Career advancement
 - c. Course work specific

- d. Responsibilities of Mentor
 - e. Role of Head of the Department
 - f. Mentoring Activities
 - g. Mentor mentee form and mentor system in Toyota
11. Presentation on Department Research Activities by Dr. S Baskaran
- a. Research highlights
 - b. Funded projects (Major & Minor)
 - c. Consultancy
 - d. Patents
 - e. Student High Action Research Program (SHARP)
 - f. Project laboratories and facilities
 - g. Faculty publications and rewards
 - h. Intellectual meet
12. Discussion on research activities and seeking suggestions to improve Research activities like funding projects, collaborative research, patent and consultancy.
13. Presentation on Teaching-Learning Process and Student Activities by Dr. Prasanna Kumar Duvvi
- a. Teaching-Learning Process
 - b. Evaluation scheme at exams
 - c. Mechanical Engineering Laboratories
 - d. Student clubs
 - e. Student Co-Curricular and Extracurricular Activities
14. Presentation on Review of Plans for Engineering Workshop by Dr. P Naresh
- a. History of Workshop
 - b. Trades for exercises
 - c. Proposing Trades: Changing the syllabus according to the new trends/current trends
 - i. House Wiring
 - ii. Computer Hardware
 - iii. Introduction to Automation
 - d. Apprentice Training Activities: These apprenticeship trainers are engaged with the approval of Regional directorate Apprenticeship Training (RDAT) for ITI students and board of apprenticeship training for diploma students.
 - e. Certificate will be provided after successful completion of the training program
 - f. Social relevant activities
 - g. Central fabric Facility (CFF)
15. Presentation on Review of UG Curriculum and proposed changes by Dr. Uday Krshna Ravella

- a. Curriculum is designed based on outcome based education, as recommended by NBA.
- b. Curriculum preparation, credit distribution
- c. Scheme of I, II year
- d. Scheme of III Year, offering one new course Design thinking & product innovation which is recommended by AICTE and also APSHEC
- e. Introducing virtual laboratory with zero credit
- f. Scheme of all IV years, Discipline Electives, Open Electives
- g. Offering new courses industrial & automobile battery systems, Solar energy or process heat & power generation, energy auditing, Design and analysis of welded structures, design of pressure vessels & Piping Systems, Internet of Manufacturing things, Industrial organization & management, Tool and Die design, Industrial Corrosion & Tribology.
- h. Courses offered for Honors Program, 5 courses of 3 Credits each and Mini projects 5 Credits
- i. Courses offered for Minors degree in Mechatronics, Hybrid & Electrical Vehicles, Mechanical Engineering, 6 Courses of 3 Credits each & One Lab with 2 Credits
- j. Proposed MITS R18 Vs AICTE

16. Presentation on Review of Internships and Projects by Dr. R Prithivirajan

- a. Projects and Internships Process
- b. In House Project
- c. Full Semester Internships
- d. International Internships
- e. Quality of project & Thesis
- f. Outcome from projects and internships

17. Presentation on department Road Map by Dean and HOD Dr. T N Sreenivasa

18. Presentation on Review of PG Curriculum and proposed changes by Dr. S Thamizhmanii

- a. Structure of curriculum
- b. Discipline Electives
- c. Seeking suggestions for
 - i. the courses mentioned in the presentation is meeting the requirements for AMS
 - ii. placement of the courses are acceptable by the IAAB members
 - iii. Suggestions for improvement

19. Conclusion and closing points by Dean and Head

20. Vote of Thanks by Dr. Senthil Kumar JS

- a. Expressed gratitude to IAAB members on behalf of Mechanical Engineering Department, MITS for their presentations and valuable suggestions.

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Department of Mechanical Engineering

Industry Academic Alumni Advisory Board



RECOMMENDATIONS & COMMENTS ON R18 SYLLABI

I. Personal Details

Name : *Dr. Ravikumar. L*

Organization : *B.M.S. College of Engineering.*

E-mail : *ravi.mech@bmsce.ac.in*

Mobile : *09448769345*

II. Suggestions & Comments on Mechanical Engineering Facilities

III. Suggestion & Comments on Curriculum Structure - MITS R18

Attention is required.

Re Design of Curriculum is required.

Balancing of credits

Contact Hours.

Self Learning. etc.

Assessment methods.

Standardisation of Question Papers / assignments.
etc.

TLP to be standardised.

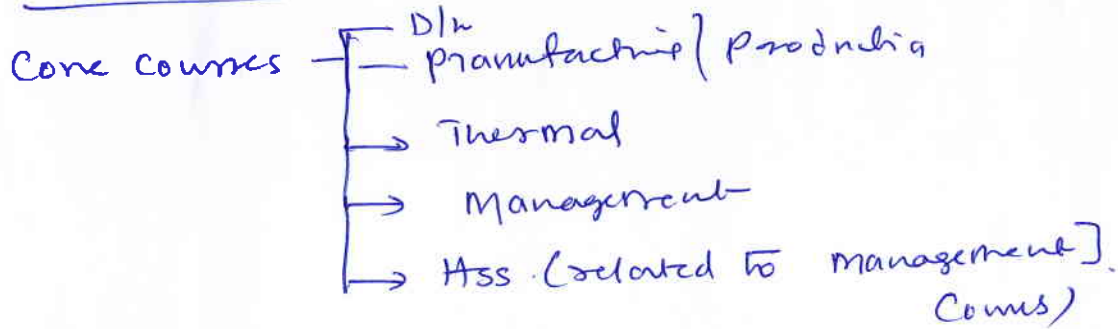
Follow the regulations (AICTE, affiliated universities
for standardisation. National Mission programme
etc).

Thy 2

IV. Suggestions & Comments on Course Syllabus

- 1) Re design of Curriculum .
- 2) Mech. vibration should be compulsory course .
- 3) Control Engineering should be compulsory elective .
- 4) ^{Advanced .} Mechanical measurements may be considered as
Mooc course .

Basket of Courses on domain wise. to be presented .



Engg. Mechanics to be included in III Sem in place of .

18 HUM 101 .

18 102 — mechanics of materials to be include

Relook on 18ME 204 Dynamic's lab

2 electrical m/c practicals —

GD&T Course to be include as mooc (if possible) .

Avoid fractional credits —

1/2

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RECOMMENDATIONS & COMMENTS ON R18 SYLLABI

I. Personal Details

Name : M. Hari Prasad
Organization : Aeronautical Development Establishment
E-mail : manchoorhp@gmail.com
Mobile : +91-9916936781

II. Suggestions & Comments on Mechanical Engineering Facilities

- I - change 18 CSE101 to Engg. Mechanics (Civil Engg.)
- II semi - professional English make to 2 credit course.
- Introduce Vibration course. Remove vibrations from Theory of machine.
- Try to bring Mechatronics into core Subject along with Lab.
- Biology for Engg. make it 2 credit course.
- comp. aided m/c drawing to bring to change to 3D modelling lab.

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RECOMMENDATIONS & COMMENTS ON R18 SYLLABI

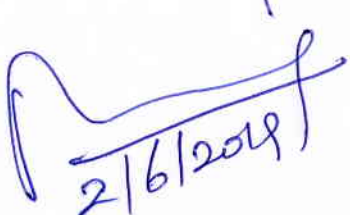
I. Personal Details

Name : D.S. R. THUNDIL KARUPPA RAD.
Organization : VIT, VELLORE
E-mail : thundils@gmail.com.
Mobile : 9444142658.

II. Suggestions & Comments on Mechanical Engineering Facilities

III. Suggestion & Comments on Curriculum Structure - MITS R18

- ① 18HUM101 may be moved to third year II - sem.
- ② Bring 18ME105 Mos to the 2 year - I - Semester
- ③ OR may be replaced for 18HUM102 Principles of Management.
- ④ Dynamics Lab + Electrical Machines should not be combined.
- ⑤ 18BI0101 may be moved 3 year - 2 Semester
- ⑥ Replace the name as 18ME202 3-D Modeling Lab as CAD.
- ⑦ Avoid fractional credits.
- ⑧ Mech. measurements may be considered for more courses.
- ⑨ QP should be improved.


2/6/2019

Madanapalle Institute of Technology & Science

Department of Mechanical Engineering

The Department of Mechanical Engineering at Madanapalle Institute of Technology & Science (MITS) has conducted Industry Alumni Advisory Board (IAAB) on 23rd June 2018, 11:00 AM – 2:00 PM. The following internal and external members have attended the meeting.

S. No	Name of the Member	Designation
1	Dr. P Ramanathan	Vice Principal Academics, MITS
2	Dr. P Suryanarayana Raju	Professor, Dept. of ME, MITS (Subject Expert-Thermal Specialization)
3	Dr. Prasanna Kumar DL	Professor, Dept. of ME, MITS (Subject Expert-Thermal Specialization)
4	Dr. S Thamizhmanii	Professor, Dept. of ME, MITS (Subject Expert-Manufacturing and Production Specialization)
5	Dr Senthil Kumaar JS	Professor, Dept. of ME, MITS (Subject Expert-Manufacturing and Production Specialization)
6	Dr. Uday Krishna Ravella	Associate Professor, Dept. of ME, MITS (Subject Expert-Material Science Specialization)
7	Mr. M. Hari Prasad	Former Scientist Aeronautical Development Establishment (ADE), Bangalore
8	Dr. R. Thundil Karuppa Raj	Professor & Head VIT, Vellore
9	Mr. Rajesh R. Y.	Assistant General Manager Hyundai R&D, Hyderabad
10	Mr. Shankar Reddy	Scientist DRDO, Hyderabad
11	Mr. Kalyan	Design Engineer Manager ERS Electronic GmbH, Germany



Head of the Department

Dept. of ME



Principal

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