



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE  
(UGC-AUTONOMOUS)**

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu  
Accredited by NBA, Recognized under section 2(F) & 12(B) of the UGC act 1956  
World Bank funded Institute, An ISO 9001-2008 Certified Institution  
First Recognized Research Centre under JNTUA, Recognized as SIRO by DSIR



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Date: 07.10.2024

**Circular**


It is hereby informed to all the members of Program Assessment Committee (PAC) that 13<sup>th</sup> Program Assessment Committee (PAC) Meeting is scheduled on 16-10-2024, Wednesday, 11:30 a.m. at the board room (EB-001), MITS, Madanapalle, for addressing and reviewing the assessment method for attainment of Course Outcomes (COs), Program Outcomes (POs) and Program Specific Outcomes (PSOs).

**Agenda:**


1. Assessment of previous results and analysis of Course outcomes (COs), Program Outcomes (POs) and Program Specific Outcomes (PSOs), for the academic year 2023-24, I semester and II semester subjects.
2. Analysis of Overall PO's and PSO's attainment of 2020 – 24 batch.
3. Discussion on assessment methods to achieve attainment level in R-23 Regulation for UG syllabus.
4. Discussion on department vision and mission, if it is in line with institutional vision mission, POs, PEOs and PSOs or not?
5. Discussion on syllabus structure of R23 II year courses and also about the CO-PO & CO-PSO correlation of the R23 II year courses.
6. Any other matter with the permission of the chair.

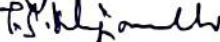
  
Dr. A V Pavan Kumar.  
HoD/EEE

**Head of the Department**  
**Electrical & Electronics Engineering**  
**Madanapalle Institute of Technology & Science**  
**MADANAPALLE - 517 325**


1. Dr. Pavan Kumar AV 

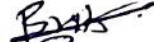
2. Dr. C. Kamal Basha 

3. Dr. Lakshmikhandan K 

4. Dr. Balaji Damodhar T S. 

5. Dr. Arul Kumar K. 

6. Mr. Sridhar N 

7. Mr. Vijay Kumar B 

8. Mr. Rajesh K S 



# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECH), MBA & MCA



## Department of Electrical & Electronics Engineering

Date: 16.10.2024

### Minutes of 13<sup>th</sup> Program Assessment Committee (PAC) Meeting Held on 16-10-2024

In continuation with the previous meeting dated 18<sup>th</sup> December, 2023, PAC has been assembled on 16<sup>th</sup> October, 2024 at 11.30 a.m. at the board room (EB-001), MITS, Madanapalle, for addressing and reviewing the Assessment method for attainment of Course Outcomes (COs), Program Outcomes (POs) and Program Specific Outcomes (PSOs).

#### Agenda:

1. Assessment of previous results and analysis of Course outcomes (COs), Program Outcomes (POs) and Program Specific Outcomes (PSOs), for the academic year 2023-24, I semester and II semester subjects.
2. Analysis of Overall PO's and PSO's attainment of 2020 – 24 batch.
3. Discussion on assessment methods to achieve attainment level in R-23 Regulation for UG syllabus.
4. Discussion on department vision and mission, if it is in line with institutional vision mission, POs, PEOs and PSOs or not?
5. Discussion on syllabus structure of R23 II year courses and also about the CO-PO & CO-PSO correlation of the R23 II year courses.
6. Any other matter with the permission of the chair.

#### Members Present:

- |  |          |  |
|--|----------|--|
| 1. Dr. A V Pavan Kumar<br>HoD, Dept. of EEE, MITS.                 | Chairman |  |
| 2. Dr. C. Kamal Basha<br>Professor, Dept. of EEE, MITS.            | Member   |  |
| 3. Dr. Lakshmikhandan K<br>Asst. Professor, Dept. of EEE, MITS.    | Member   |  |
| 4. Dr. Balaji Damodhar T S<br>Asst. Professor, Dept. of EEE, MITS. | Member   |  |
| 5. Dr. Arul Kumar L<br>Assoc. Professor, Dept. of EEE, MITS.       | Member   |  |
| 6. Mr. Sridhar N<br>Asst. Professor, Dept. of EEE, MITS.           | Member   |  |
| 7. Mr. Vijay Kumar B<br>Asst. Professor, Dept. of EEE, MITS.       | Member   |  |
| 8. Mr. Rajesh K S<br>Asst. Professor, Dept. of EEE, MITS.          | Member   |  |



# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECH), MBA & MCA



HoD, welcomed the members of the committee who had assembled for reviewing the assessment method of Course Outcomes (COs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) for the EEE department.

The following points were discussed during the meeting and the minutes were recorded as below,

**AY: 2023-24**

## A. B.Tech. – II Year

1. The attainments level of CO<sub>1</sub>, CO<sub>2</sub>, and CO<sub>4</sub> for the course Electric Circuit Analysis is 1.4, 0.9, and 1.4 respectively. Attainment level of other COs is more than 1.8 (Target Value). The committee members have suggested solving numericals from the previous year question papers and to engaging additional hours for the contents on the said COs to enhance the attainment.
2. The attainments level of all COs (CO<sub>1</sub> – CO<sub>5</sub>) for the course Analog Electronics is less than the target level of 1.8. The committee members have suggested planning and implementing the remedial classes to improve the attainment for the upcoming batches.
3. The attainments level of CO<sub>2</sub>, CO<sub>3</sub>, and CO<sub>5</sub> for the course Digital Electronics is 1.08, 0.92, and 1.24 respectively. Attainment level of other COs is more than 1.8 (Target Value). The committee members have suggested to engaging additional hours for the contents on the said COs to enhance the attainment and also to provide additional assignments.

## B. B.Tech. – III Year

1. The attainment level of CO<sub>1</sub>, CO<sub>3</sub> & CO<sub>5</sub> for the course Power Systems-I are 1.2, 1.2 and 0.9 respectively. The attainment of all other COs are more than 1.8 (Target value). So, the committee members have suggested, providing additional assignments for the particular CO contents to improve the attainment for upcoming batches.
2. The attainment level of CO<sub>2</sub>, CO<sub>4</sub> & CO<sub>5</sub> for the course Power Electronics are 1.7, 1.7 and 1.4 respectively. The attainment of all other COs are more than 1.8 (Target value). So, the committee members have suggested, engaging remedial classes for the contents having low CO attainment for upcoming batches.
3. The attainment level of all COs (CO<sub>1</sub> – CO<sub>5</sub>) for the course Signals and Systems are less than target level of 1.8. So, the committee members have suggested solving more numericals and to engage additional hours to improve the attainment for upcoming batches.



# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECII), MBA & MCA



## C. B.Tech. – IV Year

The attainments level of CO<sub>5</sub> for the course Electric Hybrid Vehicles is 1.4. Attainment level of all other COs is more than 1.8 (Target Value). The committee members have suggested engaging additional hours for the contents on the said COs to enhance the attainment for the upcoming batches.

## D. Attainment of PO's and PSO's for B. Tech: 2020-2024 Batch

Batch	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
2020-24	2.37	2.36	2.21	2.03	2.57	2.11	2.11	2.09	2.79	2.81	2.47	2.25	2.43	2.24	2.25

The attainment level of the POs (PO<sub>1</sub>, PO<sub>2</sub>, PO<sub>5</sub>, PO<sub>9</sub>, PO<sub>10</sub>, PO<sub>11</sub> and PO<sub>12</sub>) is more than the target level of 2.25. And also the attainment level of PSO<sub>1</sub> & PSO<sub>3</sub> is more than the target level of 2.25. But the attainment of remaining POs and PSO is less than the target level of 2.25 for the B.Tech batch of 2020-2024. The committee members have suggested that the target value of POs and PSOs can be set to level 2.4 for the 2021-2025 B.Tech batch with the approval of BoS committee.

## E. Guest Lecture and Workshop

The committee members suggested to plan and implement the guest lectures, technical talk from industry experts on the courses like Electric Vehicles, power systems, renewable energy generation, power electronics etc., to improve the attainment of the COs. And also the committee suggested conducting workshops and hands on training programs related to the industrial application domain courses to achieve CO attainment more than the target level.

- F. The Committee members have not suggested any modification in the department vision & mission as it is in line with the institutional vision & mission, POs, PEOs and PSOs.
- G. Committee members have discussed about syllabus structure of R23 II year courses and also about the CO-PO & CO-PSO correlation of R23 II year courses.

*Paul*  
17/10/24

PAC Chairperson  
HOD/EEE

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

Copy to

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