



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

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapuramu) 37  
P.B.No. 14, Angallu, Madanapalle - 517325, Chittoor Dist., Andhra Pradesh, India.  
[www.mits.ac.in](http://www.mits.ac.in) Phone: 08571-280255, 280706 Fax: 08571 - 280433

**Department of Electrical & Electronics Engineering**

Date: 18.03.2019

**Composition and approval of 8<sup>th</sup> Program Assessment Committee (PAC)**

Following members are nominated and approved for constitutions of 8<sup>th</sup> Program Assessment Committee (PAC).

- |   |          |
|---|----------|
| 1. Dr. Asha Rani M. A.<br>HoD, Dept. of EEE, MITS.                    | Chairman |
| 2. Dr. C. Kamal Basha<br>Professor, Dept. of EEE, MITS.               | Member   |
| 3. Dr. Ilampoornan M. K.<br>Professor, Dept. of EEE, MITS.            | Member   |
| 4. Dr. Rajendraprasad Narne<br>Assoc. Professor, Dept. of EEE, MITS.  | Member   |
| 5. Dr. Suprava Chakraborty<br>Assoc. Professor, Dept. of EEE, MITS.   | Member   |
| 6. Dr. M. Chakkarapani<br>Assoc. Professor, Dept. of EEE, MITS.       | Member   |
| 7. Dr. Lakshmanan S. A.<br>Sr. Asst. Professor, Dept. of EEE, MITS.   | Member   |
| 8. Dr. Pavan Kumar AV<br>Sr. Asst. Professor, Dept. of EEE, MITS.     | Member   |
| 9. Dr. Hira Singh Sachdev<br>Sr. Asst. Professor, Dept. of EEE, MITS. | Member   |

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/EEE



Principal

Copy to

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

**PRINCIPAL**  
Madanapalle Institute of Technology & Science  
P. B. No. 14, Kadiri Road,  
MADANAPALLE 517325



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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: 01.04.2019




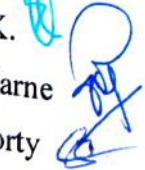
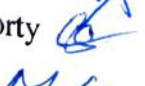




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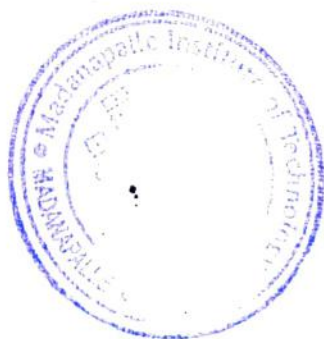
It is hereby informed to all the members of Program Assessment Committee (PAC) that 8<sup>th</sup> Program Assessment Committee (PAC) Meeting is scheduled on 03-04-2019, Wednesday, 11:00 a.m. at the board room (EB-001), MITS, Madanapalle, for addressing and reviewing the assessment method for attainment 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 2018-19, I semester subjects.
2. Discussion on assessment methods to achieve attainment level in R-14 Regulation for UG syllabus.
3. Discussion on department vision and mission, if it is in line with institutional vision mission, POs, PEOs and PSOs or not?
4. Discussion on existing R14 courses
5. Discussion on R18, I and II year courses.
6. Discussion on vision, mission and PEOs of the department.
7. Any other matter with the permission of the chair.

  
Dr. Asha Rani M. A.  
OD/EEE

1. Dr. Asha Rani M. A. 
2. Dr. C. Kamal Basha 
3. Dr. Ilampoornan M. K. 
4. Dr. Rajendraprasad Narne 
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



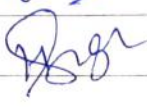


# PAC : 8 (Attendance)

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Date : 03/04/2019

Members Name

Signature

1. Dr. Asha Rani MA 
2. Dr. C. Kamal Basha 
3. Dr. Ilampooran M.K. 
4. Dr. Rajendraprasad Narne 
5. Dr. Suprava Chakraborty 
6. Dr. M. Chakkarapani 
7. Dr. Lakshmanan S.A. 
8. Dr. Parvan Kumar AV 
9. Dr. Hira Singh Sachder 



**PRINCIPAL**  
Madanapalle Institute of Technology & Science  
PO Box NO 14, Kadiri Road, Angali  
MADANAPALLE 517 325 A.P.



## Department of Electrical & Electronics Engineering

Date: 03.04.2019









### Minutes of 8<sup>th</sup> Program Assessment Committee (PAC) Meeting Held on 03-04-2019

In continuation with the previous meeting dated 03<sup>rd</sup> September 2018, PAC has been assembled on 3<sup>rd</sup> April, 2019 at 11.00 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 2018-19, I semester subjects.
2. Discussion on assessment methods to achieve attainment level in R-14 Regulation for UG syllabus.
3. Discussion on department vision and mission, if it is in line with institutional vision mission, POs, PEOs and PSOs or not?
4. Discussion on MITS R-18, I and II year courses.
5. Any other matter with the permission of the chair.

#### Members Present:

- |  |   |
|--|---|
| 1. Dr. Asha Rani M. A.<br>HoD, Dept. of EEE, MITS.                   | Chairman  |
| 2. Dr. C. Kamal Basha<br>Professor, Dept. of EEE, MITS.              | Member    |
| 3. Dr. Ilampoornan M. K.<br>Professor, Dept. of EEE, MITS.           | Member    |
| 4. Dr. Rajendraprasad Narne<br>Assoc. Professor, Dept. of EEE, MITS. | Member    |
| 5. Dr. Suprava Chakraborty<br>Assoc. Professor, Dept. of EEE, MITS.  | Member    |
| 6. Dr. M. Chakkarapani<br>Assoc. Professor, Dept. of EEE, MITS.      | Member    |
| 7. Dr. Lakshmanan S. A.<br>Sr. Asst. Professor, Dept. of EEE, MITS.  | Member    |
| 8. Dr. Pavan Kumar AV<br>Sr. Asst. Professor, Dept. of EEE, MITS.    | Member    |



9. Dr. Hira Singh Sachdev  
Sr. Asst. Professor, Dept. of EEE, MITS.

Member 

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.

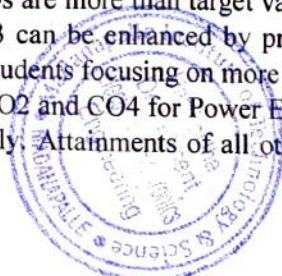
The following points were discussed during the meeting and the minutes were recorded as below.

#### A. B.Tech. – II year I semester

1. The attainments of CO1 and CO2 for the course Network Analysis are 47% and 57% respectively. Attainments of all other COs are more than 60%. The committee members have suggested for remedial classes focused on practice of network analysis numerical to attain the target of CO1. The committee members have suggested that the attainment of CO2 can be improved by giving more assignment problems and solving more numerical in the class.
2. The attainment of CO1 and CO5 for the course Electrical Machines are 53% and 57% respectively. Attainments of all other COs are more than the target level. The committee members have suggested that the attainment of CO1 can be achieved to the targeted level through practical demonstration of cut-sections of machines and animated videos on working principle of machines. As per the suggestion of the committee members, the attainment of CO5 can reach to the target level by solving more numerical focused on power flow equation of synchronous machines.
3. In the course Digital Design the attainment of CO1, CO2 and CO3 are 53%, 51% and 57% respectively. Attainments of all other COs have reached the target level. The committee members have suggested giving separate assignment for that particular unit can help to reach the attainment of CO1. The committee members have suggested solving more numerical in class can help in attaining the target of CO2 and CO3. The committee members also suggested remedial classes to attain the target level of CO2.
4. The attainments of CO2 and CO3 for the course Electronic Devices are just below the target level with a value of 59% and 51% respectively. Attainments of all other COs have achieved the target level. As per suggestion of the committee members, the attainment of CO2 can be enhanced through more assignment problems. The committee members have suggested to use animated videos and role playing strategies among the students to meet the attainment target of CO3.
5. The attainment of all COs (CO1-CO5) in the course Principles of Economics is more than 70%. So, the committee members have suggested to increase the target value from 60 % to 65% for this particular course.

#### B. B.Tech. – III year I semester

1. The attainment of CO3 for the course Electrical Measurements & Instrumentation is 51%. Attainments of all other COs are more than target value. The committee members have suggested that, the attainment of CO3 can be enhanced by practical on the different types of bridges and remedial classes for week students focusing on more practice of numerical.
2. The attainment of both CO2 and CO4 for Power Electronics course is just below the target level i.e. 54% & 59% respectively. Attainments of all other COs are more than 60%. The committee





members have been suggested to give more assignment problems to increase the attainments of CO2 and CO4.  
3. In the course Signals & Systems the attainment of CO2, CO4 and CO5 are 54%, 59% and 54% respectively. The attainments of the CO1 and CO3 have achieved the target value. The committee members have been suggested to solve more numerical problems in class and remedial classes for identified week students to enhance the attainment of CO2, CO4 and CO5.

#### C. B.Tech. – IV year I semester

1. The attainment of CO4 for the course Electric Power Utilization and Illumination is 59%. Attainments of all other COs are more than 60%. The committee members have suggested to solve more numerical in the class to improve the attainment of CO4.
2. The attainment of CO3 for the course Switchgear & Protection is below the target value i.e. 58%. Attainments of all other COs are more than the target level. The committee members have suggested that the attainment of CO3 can be enhanced by practical demonstration, animated videos and by solving more numerical in the class.

#### D. Attainment of POs and PSOs for B.Tech: 2014-2018 Batch (First Autonomous Batch)

The attainment of all the POs (PO1-PO12) and PSOs (PSO1-PSO3) are more than the target level for the B.Tech batch of 2014-2018. All POs and PSOs have been successfully attained. The committee members have suggested that the target value of POs and PSOs can be increased from 75% to 80% for the 2015-2019 B.Tech batch with the approval of BOS committee.

#### E. Guest Lecture and Workshop

The committee members have suggested that the guest lectures on the industrial application and on the importance of the subjects like network analysis, digital design, electronics devices and signals & systems can improve the attainment of the COs. The committee members have also suggested to conduct workshops and hand-on training for industrial tuning of the subjects like Measurement & Instrumentation, Switchgear Protection, Electrical Machines and Electric Power Utilization to achieve COs 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. As per the IDC members suggestions, a new course Non-Conventional Energy Resources is added in the Discipline Elective-I.
- H. Committee members have discussed about R18 I year I and II semester courses.



*A. S. Prasad*  
PAC Chairperson  
HOD/EEE

Copy to

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

*[Signature]*  
PRINCIPAL  
Maclanapalle Institute of Technology & Science  
PO Box NO 14, K...  
MADANAPALLE - 517325 A.P.