

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

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 13.12.2022

<u>Circular</u>

It is hereby informed to all the members of Program Assessment Committee (PAC) that 11th Program Assessment Committee (PAC) Meeting is scheduled on 20-12-2022, Tuesday, 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 2020-21, II semester subjects and for academic year 2021-22, I semester and II semester subjects.
- 2. Analysis of Overall PO's and PSO's attainment of 2017 21 and 2018 22 batches.
- 3. Discussion on assessment methods to achieve attainment level in R-18 Regulation for UG syllabus.
- 4. Discussion on Comparison of Overall attainment of PO's and PSO's of R-14 Regulation batches.
- 5. Discussion on department vision and mission, if it is in line with institutional vision mission, POs, PEOs and PSOs or not?
- 6. Discussion on existing R18 courses
- 7. Discussion on R20 III year courses.
- 8. Discussion on CO-PO & CO-PSO correlation of R20 III year courses.

9. Any other matter with the permission of the chair.

Dr. A V Pavan Kumar.

HoD/EEE

1. Dr. Pavan Kumar AV

2. Dr. C. Kamal Basha

Madanepalle Institute of Technology & Science.

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5. Dr. Arul Kumar K.

6. Mr. Sridhar N —

3. Dr. Lakshmikhandan K

7. Mr. Vijay Kumar B Bynn

4. Dr. Balaji Damodhar T S. T.

8. Mr. Rajesh K S



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

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Department of Electrical & Electronics Engineering

Date: 20.12.2022

Minutes of 11th Program Assessment Committee (PAC) Meeting Held on 20-12-2022

In continuation with the previous meeting dated 22nd November, 2021, PAC has been assembled on 20th December, 2022 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).

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- 8. Discussion on CO-PO & CO-PSO correlation of R20 III year courses.
- 9. Any other matter with the permission of the chair.

Members Present:

 Dr. A V Pavan Kumar HoD, Dept. of EEE, MITS.

 Dr. C. Kamal Basha Professor, Dept. of EEE, MITS.

3. Dr. Lakshmikhandan K Asst. Professor, Dept. of EEE, MITS.

 Dr. Balaji Damodhar T S Asst. Professor, Dept. of EEE, MITS.

Dr. Arul Kumar K
 Assoc. Professor, Dept. of EEE, MITS.

Mr. Sridhar N Asst. Professor, Dept. of EEE, MITS. Chairman '

Member

Member

Member T.S. Murand

Member

Member

7. Mr. Vijay Kumar B Asst. Professor, Dept. of EEE, MITS.

8. Mr. Rajesh K S Asst. Professor, Dept. of EEE, MITS.

Caleur Member

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 BEE department.

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

AY: 2020-21

A. B.Tech. - II year II semester

- 1. The attainments of all COs (CO1 CO5) in the course Control Systems Laboratory are 56%, 56%, 57%, 56% and 56% respectively. The committee members have been suggested to conduct the experiments with a group of 2 to 3 students for effective learning and to enhance the attainment of all COs.
- 2. The attainment of all COs (CO1-CO5) in other courses are attained. So, the committee members have suggested increasing the target value from 65 % to 70% for the particular course which have 70% and above attained.

B. B.Tech. - III year II semester

- 1. The attainments of CO2, CO4 and CO5 for the course Signals and Systems are 47%, 57% and 49% respectively. Attainments of all other COs are more than 60%. The committee members have suggested for remedial classes focused on practice of more numerical to attain the target of CO2 and CO4. The committee members have suggested that the attainment of CO₅ can be improved by solving numerical from previous university question papers and giving more assignment problems.
- 2. The attainments of CO1 and CO2 for the course power Systems-II are 48% and 52% respectively. Attainments of all other COs are more than 60%. The committee members have suggested for solving the previous year university question papers for the improvement of attainment.
- 3. The attainments of CO2 and CO5 for the course Electric Drives and Control are 41% and 48% respectively. Attainments of all other COs are more than 60%. The committee members have suggested giving more examples based on real time applications to enhance the attainment.

C. B.Tech. - IV year II semester

The attainment of all COs (CO₁-CO₅) in all courses are attained. So, the committee members have suggested increasing the target value from 65 % to 70% for the particular course which have 70% and above attained.

AY: 2021-22

A. B.Tech. - II Year

- 1. The attainments levels of CO₁ and CO₂ for the course Electric Circuit Analysis are 1.4 each respectively. Attainment levels of all other COs are more than 1.8 (Target Value). The committee members have suggested for solving more examples on the said COs to enhance the attainment.
- 2. The attainments of CO₁, CO₂, CO₄ and CO₅ for the course Analog Electronics are 1.7, 1.7, 1.5 and 1.2 respectively. Attainment of CO₃ is more than 1.8 (Target Value). The committee members have suggested for remedial classes focused on practice of more numerical to attain the target of CO₁ and CO₂. The committee members have suggested that the attainment of CO₄ and CO₅ can be improved by solving numerical from previous university question papers and giving more assignment problems.
- 3. The attainments level of CO₁, CO₂ and CO₄ for the course Electromagnetic Fields are 1.7, 1.4, and 1.4 respectively. Attainments of all other COs are more than 1.8. The committee members have suggested for solving more numericals and to provide additional assignments on the said COs to enhance the attainment.

B. B.Tech. - III Year

1. The attainment of all COs (CO₁-CO₅) in all courses are attained. So, the committee members have suggested increasing the target value from 65 % to 70% for the particular course which have 70% and above attained.

C. B.Tech. - IV Year

- 1. The attainment of CO₂ for the course Switch Gear and Protection is 53%. Attainments of all other COs are more than 60%. The committee members have suggested giving real time applications in the class to enhance the attainment.
- 2. The attainment of CO₃ for the course Wind and Solar Energy Resources is 57%. Attainments of all other COs are more than 60%. The committee members have suggested giving to make the students to prepare solution for the previous year question papers.

D. Attainment of PO's and PSO's for B. Tech: 2017-2021 Batch (Fourth Autonomous Batch)

The attainment of all the POs (PO₃, PO₄, PO₆, PO₇, PO₉, PO₁₁) is level 1, (PO₁, PO₂, PO₅, PO₈, PO₁₀, PO₁₂₁) is level 2 and PSOs (PSO₁, PSO₂) is level 2 and PSO₃ is level 1 for the

B.Tech batch of 2017-2021. All POs and PSOs have been successfully attained above level 1. The committee members have suggested that the target value of POs and PSOs can be set to level 2 for the 2018-2022 B.Tech batch with the approval of BoS committee.

E. Comparison of Overall attainment of PO's and PSO's of R-14 Regulation batches

The comparison of Overall attainment of PO's and PSO's of all R-14 Regulation batches is discussed in the meeting. The attainment details for all the batches is mentioned in the below table.

Batch	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
2014-18	81	81	82	82	82	82	82	84	84	84	84	84	83	82	82
2015-19	77	77	77	77	78	86	84	89	84	84	81	86	77	78	77
2016-20	79	79	79	79	79	85	83	87	84	83	81	85	79	80	79
2017-21	73	71	69	68	70	65	67	71	68	72	66	70	70	71	70

F. Attainment of PO's and PSO's for B. Tech: 2018-2022 Batch (Fifth Autonomous Batch)

The attainment of all the POs $(PO_1 - PO_{12})$ and PSOs $(PSO_1 - PSO_3)$ is level 1 for the B.Tech batch of 2018-2022. All POs and PSOs have been successfully attained above level 1. The committee members have suggested that the target value of POs and PSOs can be set to level 2 for the 2019-2023 B.Tech batch with the approval of BoS committee.

G. 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 Power Systems, Renewable Energy Sources and Electronic Circuits which can improve the attainment of the COs. The committee members have also suggested conducting workshops and hand-on training for industrial tuning of the subjects like DC Machines & Transformers and Electrical Drives to achieve COs more than the target level.

- H. Committee members have discussed about R18 courses and R20 III year courses. And also discussed about the CO-PO & CO-PSO correlation of the R20 III Year courses.
- I. 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.

PAC Chairperson HOD/EEE

Copy to

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

Head of the Department
Electrical & Electronics Engineering
Madanapalle Institute of Technology & Science.

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