MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
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First Recognized Research Centre under JNTUA, Recognized as SIRO by DSIR

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 13.12.2022

Circular

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. 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
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

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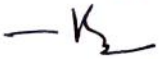
8. Any other matter with the permission of the chair.

Members Present:

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

AY: 2020-21

A. B.Tech. – II year II semester

1. The attainment of all COs (CO_1-CO_5) 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 CO_2, CO_4 and CO_5 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 CO_2 and CO_4. The committee members have suggested that the attainment of CO_5 can be improved by solving numerical from previous university question papers and giving more assignment problems.
2. The attainments of CO_1 and CO_2 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 CO_2 and CO_5 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 (CO_1-CO_5) 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 of CO_1 and CO_2 for the course Electric Circuit Analysis are 54% and 58% respectively. Attainments of all other COs are more than 60%. The committee members have suggested for solving more examples on the said COs to enhance the attainment.

2. The attainments of CO_1, CO_2 and CO_5 for the course Analog Electronics are 48%, 43% and 56% 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 CO_1 and CO_2. The committee members have suggested that the attainment of CO_5 can be improved by solving numerical from previous university question papers and giving more assignment problems.

3. The attainments of CO_1 and CO_5 for the course DC Machines and Transformers are 58% and 57% respectively. Attainments of all other COs are more than 60%. 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 (CO_1-CO_5) 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 CO_2 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 CO_3 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 (PO_3, PO_4, PO_6, PO_7, PO_9, PO_{11}) is level 1, (PO_1, PO_2, PO_5, PO_8, PO_{10}, PO_{121}) is level 2 and PSOs (PSO_1, PSO_2) is level 2 and PSO_3 is level 1 for the B. Tech batch of 2017-2021. All POs and PSOs have been successfully attained above level 1.

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	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
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. 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.

I. Committee members have discussed about R18 courses and R20 III year courses.

J. The committee suggested to conduct industrial visits, Skill development programs, training program and Internships for bridging the gap between theoretical and industry practices.

PAC Chairperson
HOD/EEE

Copy to

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