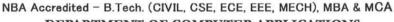**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**
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DEPARTMENT OF COMPUTER APPLICATIONS

Date: 26.04.2022

Composition and approval of Program Assessment Committee (PAC)

The Following members are nominated and approved for constitutions of Program Assessment Committee (PAC).

1.	**Dr. N. Naveen Kumar** Associate Professor & HoD, Dept. of Computer Applications, MITS.
2.	**Dr. S.V.S. Gangadevi** Professor, Dept. of Computer Applications, MITS.
3.	**Dr. A. Manimaran** Assistant Professor, Dept. of Computer Applications, MITS.
4.	**Dr. C. Sivaraj** Assistant Professor, Dept. of Computer Applications, MITS.
5.	**Dr .M. Saravanamuthu** Assistant Professor, Dept. of Computer Applications, MITS.

Responsibilities of the committee:
1. Monitors attainment of COs, POs and PEOs
2. PAC evaluates programme effectiveness and process necessary changes
3. Preparation of periodic reports, records on program activities, progress and status reports.

HOD/Computer Applications

Principal

Copy to
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- Programme Assessment Committee
- Department File

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DEPARTMENT OF COMPUTER APPLICATIONS

Date: 28.04.2022

Circular

It is hereby informed to all the members of Program Assessment Committee (PAC) that Program Assessment Committee (PAC) Meeting is scheduled on 30-04-2022, at 11:00 in the HoD Chamber, Department of Computer Applications, MITS, Madanapalle, for addressing and reviewing the assessment method for attainment of Course Outcomes (COs), Program Outcomes (POs) and Program Educational Outcomes (PEOs).

Agenda:

1. Assessment on previous results and analysis of Course outcomes (COs), Program Outcomes (POs) and Program Educational Outcomes (PEOs) of 2021-22 Academic year, I semester subjects.
2. Discussion on assessment methods to achieve attainment level in R-20 Regulation for PG syllabus.
3. Overall Attainment of POs for 2018-21 batch
4. Discussion on R22 curriculum structure and proposed COs
5. Discussion on department vision and mission.
6. Any other matter with the permission of the chair.

Dr. N. Naveen Kumar
HoD/MCA

1.	**Dr. N. Naveen Kumar**
2.	**Dr. S. V. S. Gangadevi**
3.	**Dr. A. Manimaran**
4.	**Dr. C. Sivaraj**
5.	**Dr. M. Saravanamuthu**

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DEPARTMENT OF COMPUTER APPLICATIONS

Program Assessment Committee (PAC) Meeting

Date: 30.04.2022

Minutes of the Meeting

In concern with the Semester wise Feedback analysis and corrective actions, PAC has been assembled on 30th April, 2022 at 11.00 a.m. in the HoD Chamber for addressing and reviewing the assessment method for attainment of Course Outcomes (COs), Program Outcomes (POs) and Faculty Feedbacks.

Agenda:

7. Assessment on previous results and analysis of Course outcomes (COs), Program Outcomes (POs) and Program Educational Outcomes (PEOs) of 2021-22 Academic year, I semester subjects.
8. Discussion on assessment methods to achieve attainment level in R-20 Regulation for PG syllabus.
9. Overall Attainment of POs for 2018-21 batch
10. Discussion on R22 curriculum structure and proposed COs
11. Discussion on department vision and mission.
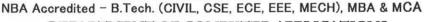12. Any other matter with the permission of the chair.

Members Present:

S.No	Name of the Faculty with Designation	Signature
1.	**Dr.N.Naveen Kumar** Associate Professor & HoD, Dept. of Computer Applications, MITS.	
2.	**Dr.S.V.S. Gangadevi** Professor, Dept. of Computer Applications, MITS.	
3.	**Dr. A.Manimaran** Assistant Professor, Dept. of Computer Applications, MITS.	
4.	**Dr. C. Sivaraj** Assistant Professor, Dept. of Computer Applications, MITS.	
5.	**Dr . M. Saravanamuthu** Assistant Professor, Dept. of Computer Applications, MITS.	

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

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

A. MCA – III Year I Semester (2019 admitted)

1. The attainment of all the courses like 18MCAP114-Agile Software Development Process and DevOps, 18MCAP411-Cyber Security and Cyber Forensics(Discipline Elective III), 18MCAP413-.Net Framework(Discipline Elective IV), 18MCAP415-Advanced Java Programming(Discipline Elective IV), 18MBAP434-E-Business(Open Elective II), 18MBAP435-Enterprise Resource Planning(Open Elective II), 18MBAP501-Management Information Systems(Open Elective III), 18MBAP513-Entrepreneurship Development and Project Management(Open Elective III), 18MCAP512-Advanced Java Programming Laboratory, 18MCAP510-.Net Framework and C# Laboratory and 18MCAP212- Agile Software Development Process and DevOps Laboratory are achieved the target level of 2.

B. MCA – I Year II Semester (2020 admitted)

1. The data reveals several courses falling below the 70% target: 20MCAP106 (Java Programming) struggles in CO1 (65.8%) and CO5 (66.6%), while 20MCAP110 (AI Techniques and Applications) underperforms in CO1 (64.92%), CO3 (64.92%), and CO5 (65.32%). 20MCAP109 (Blockchain Technology) shows concerning gaps in CO4 (61.08%) and CO5 (62.52%), indicating weak conceptual understanding in advanced topics. Laboratory courses (20MCAP203 Java Lab, 20MCAP204 DBMS Lab, 20MCAP205 DSA Lab) excel with near-perfect scores (97-98%) in practical COs (CO1-CO3). 20MCAP107 (Database Management Systems) and 20MCAP108 (Data Structures and Algorithms) mostly meet or exceed targets, though 20MCAP107 nears the threshold in CO2 (66.08%) and CO5 (67.8%). Immediate intervention is needed for underperforming courses, particularly in bridging theory-practice gaps and strengthening foundational concepts in AI and Blockchain.

   To address gaps, 20MCAP106 (Java Programming) will implement more real time example for OOP principles, while 20MCAP110 (AI Techniques) will integrate real-world case studies and algorithm visualization sessions. 20MCAP109 (Blockchain Technology) need more focus in consensus and cryptocurrency. For borderline courses like 20MCAP107 (DBMS), need to conduct more tutorial classes on SQL,PL/SQL & NO. Institutionally, faculty will undergo pedagogy workshops, students will receive bi-weekly remedial support, and assessments.

C. Though many courses attained the target level some of the courses not attained the CO target level 2, So the committee recommended to retain **the CO attainment target level as 2 to all the courses of 2022 admitted batch.**

D. Direct and Indirect assessment tools for all the attainment calculations (CO and PO) also recommended to retained for the attainment calculation of R22 regulation. The Tools details are attached.

E. 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. Also, PEOs with Mission mapping is retained and attached with the minutes.

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F. Attainment of POs for 2018-21 batch

Target : 70

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attainment	70.42	69.21	71.33	66.6	66.01	66.31	68.38	71.16	70.32	68.37	61.94	70.42
Attainment Status	YES	NO	YES	NO	NO	NO	NO	YES	YES	NO	NO	YES

The attainment of PO2, PO4, PO5, PO6, PO7, PO10 and PO11 are not attained the target level (Target Level 70) for the batch (2018-21). Hence, the committee members recommended to retain the target **PO attainment target level 70 (level 2) for 2021 admitted batch.**

To bridge gaps in PO attainment (<70%), targeted interventions will be implemented: **Case-based learning (PO2)**, **mini- projects/** case studies in courses (PO4), **hands-on tool labs (PO5)**, **ethics case studies** (PO6), encourage students to completed **MOOCS courses (PO7)**, **concentration on open elective and agile courses** (PO10 & PO11). Supporting measures include **faculty training, and mentorship**. Progress will be tracked through assessments to ensure all POs exceed 70%, aligning graduates with industry needs.

G. Committee members discussed on the Collected feedback from the students for the I year I sem, II year I sem, and III year I sem, for all the theoretical, practical, and open electives using the respective template.

H. In feedback analysis, all the subjects have attained more than the threshold value 3.5. and the summary of feedback action taken for curriculum revision is attached.

I. The committee members have discussed about R22 Course Structure along with proposed course outcomes (Cos) of first year courses and approved the same with recommendation of **adding soft skill as audit course.**

J. On identifying the results for poor performance of the few faculties, members suggested,

- To improve the teaching learning process
- To complete the syllabus in the stipulated time
- To organize the lecture well by using ICT facilities
- To provide relevant examples, if possible
- To develop interaction with students that leads to brain storming session
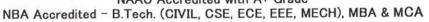- To take extra tutorial and remedial classes if necessary.

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Dr. N. Naveen Kumar
PAC Chairperson
Head of the Department
Master of Computer Applications
Madanapalle Institute of Technology & Science
MADANAPALLE - 517 325

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DEPARTMENT OF COMPUTER APPLICATIONS

Date: 23.08.2022

Composition and approval of Program Assessment Committee (PAC)

Following members are nominated and approved for constitutions of Program Assessment Committee (PAC).

1.	**Dr.N.Naveen Kumar** Associate Professor & HoD, Dept. of Computer Applications, MITS.
2.	**Dr.S.V.S. Gangadevi** Professor, Dept. of Computer Applications, MITS.
3.	**Dr. A.Althaf Ali** Assistant Professor, Dept. of Computer Applications, MITS.
4.	**Dr. C. Sivaraj** Assistant Professor, Dept. of Computer Applications, MITS.
5.	**Dr . M. Saravanamuthu** Assistant Professor, Dept. of Computer Applications, MITS.

Responsibilities of the committee:
1. Monitors attainment of COs, POs and PEOs
2. PAC evaluates programme effectiveness and process necessary changes
3. Preparation of periodic reports, records on program activities, progress and status reports.
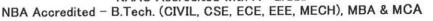
HoD/Computer Applications

Principal

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DEPARTMENT OF COMPUTER APPLICATIONS

Date: 26.08.2022

Circular

It is hereby informed to all the members of Program Assessment Committee (PAC) that Program Assessment Committee (PAC) Meeting is scheduled on 30-08-2022, 11:00 a.m. the Department Library, MITS, Madanapalle, for addressing and reviewing the assessment method for attainment of Course Outcomes (COs), Program Outcomes (POs) and Program Educational Outcomes (PEOs).

Agenda:

1. Assessment on previous results and analysis of Course outcomes (COs), Program Outcomes (POs) and Program Educational Outcomes (PEOs) of 2021-22 Academic year, II semester subjects.
2. Discussion on assessment methods to achieve attainment level in R-20 Regulation for PG syllabus.
3. Collection of feedback and analysing it.
4. Corrective actions based on the feedback received.
5. Discussion on department vision and mission.
6. Any other matter with the permission of the chair.

Dr. N. Naveen Kumar
HoD /Computer Applications

1.	Dr. N. Naveen Kumar
2.	Dr. S.V.S. Gangadevi
3.	Dr. A. Althaf Ali
4.	Dr. C. Sivaraj
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DEPARTMENT OF COMPUTER APPLICATIONS

Program Assessment Committee (PAC) Meeting

Date: 30.08.2022

Minutes of the Meeting

In concern with the Semester wise Feedback analysis and corrective actions, PAC has been assembled on 30th August, 2022 at 11.00 a.m. in the HoD Chamber for addressing and reviewing the assessment method for attainment of Course Outcomes (COs), Program Outcomes (POs) and Faculty Feedbacks.

Agenda:

1. Assessment on previous results and analysis of Course outcomes (COs), Program Outcomes (POs) and Program Educational Outcomes (PEOs) of 2021-22 Academic year, II semester subjects.
2. Discussion on assessment methods to achieve attainment level in R-20 Regulation for PG syllabus.
3. Collection of feedback and analysing it.
4. Corrective actions based on the feedback received.
5. Discussion on department vision and mission.
6. Any other matter with the permission of the chair.

During the meeting, the following Committee Members were Present:

S.No	Name of the Faculty with Designation	Signature
1.	**Dr. N. Naveen Kumar** Associate Professor & HoD,	
2.	**Dr. S.V.S. Gangadevi,** Professor	
3.	**Dr. A. Althaf Ali,** Assistant Professor,	
4.	**Dr. C. Sivaraj** Assistant Professor,	
5.	**Dr . M. Saravanamuthu** Assistant Professor, Dept. of Computer Applications, MITS.	

HoD, welcomed the members of the committee who had assembled for reviewing the assessment method of Course Outcomes (COs), Program Outcomes (POs) and Feedbacks for the Department of Computer Applications.

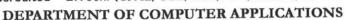The following points were discussed during the meeting and the minutes were recorded as below,

A. MCA – II Year I Semester

- The attainment of all the courses like 20MCAP111- Full Stack Web Development, 20MCAP112- Data Science, 20MCAP113- Cloud Computing, 20MCAP401- Cryptography and Network Security, 20MCAP402- Data Ware Housing and Data Mining, 20MCAP404- Agile Software Development, 20MCAP407- Biometric Security, 20MCAP408- Machine Learning, 18MCAP410- Software Quality and Assurance and

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Testing, 20MCAP413- Cyber Security, 20MCAP414- Deep Learning, 20MCAP416- Software Project Management, 20MCAP206- Full Stack Web Development Laboratory, 20MCAP207- Data Science Laboratory and 20MCAP208- Android Application Development laboratory are achieved the target level of 60%.

B. MCA – I Year I Semester

- The attainment of all the courses like 20MATP101-Mathematical Foundations for Computer Applications, 20MCAP101-Programming with C++, 20MCAP102-Computer Organization and Architecture, 20MCAP103-Operating Systems, 20MCAP104-Object Oriented Software Engineering, 20MCAP105-Computer Networks, 20ENGP201-Speaking through Listening Laboratory, 20MCAP201-Programming with C++ Laboratory and 20MCAP202-Python Programming Laboratory are achieved the target level of 70%.

- Though many courses attained the target level some of the courses not attained the CO target level 2, So the committee recommended to retain **the target level for CO attainment is 2 for 2022 admitted batch.**

C. The committee members have suggested to conduct guest lectures, workshops, industrial visits, student development programs to improve the COs more than the target level.

D. 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.

E. Committee members discussed on the Collected feedback from the students for the I year II sem, II-year II sem, and III-year II sem, for all the theoretical, practical, open electives, audit courses, and MOOCs using the respective template.

F. In feedback analysis, all the subjects have attained more than the threshold value 3.5.

G. On identifying the results for poor performance of the few faculties, members suggested,
- To improve the teaching learning process
- To complete the syllabus in the stipulated time
- To organize the lecture well by using ICT facilities
- To provide relevant examples, practically if possible
- To develop interaction with students that leads to brain storming session
- To take extra tutorial and remedial classes in case necessary.

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Dr. N. Naveen Kumar
PAC Chairperson
HoD/Computer Applications