MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)
Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA

Department of Computer Science & Technology

Date: 07-05-2021

Members of the Program Assessment Committee (PAC)

The PAC has been formed for monitoring of different departmental activities. The PAC consists of HOD and faculty members of the department, who periodically monitor the departmental activities and evaluate different parameters.

Composition and approval of PAC:

S.No.	Name of the member	Designation	Position of PAC
1.	Dr. K. Dinesh	Assoc. Professor	Chairman
2.	Dr. M. Sreedevi	Professor & Head	Member
3.	Dr. R. Rajakumar	Assoc. Professor	Member
4.	Dr. S. Padma	Assoc. Professor	Member
5.	Dr. K. Chokkanathan	Assoc. Professor	Member
6.	Dr. R. Sendhil	Assoc. Professor	Member

Functions and Responsibilities:

- Monitoring the attainments of Course Outcomes (COs), Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs).
- Suggesting way and means to reduce the curriculum gaps in achieving PO's and PSO's.
- Evaluating program effectiveness and proposing necessary changes.
- Measuring the extent of adherence to planned activities and calendar of events.
- Preparation of periodic reports, records on program activities, progress and status reports.

HOD Head of the Department
Computer Science & Technology
Madanapalle Institute of Technology & Science
MADANAPALLE - 517 325

PRINCIPAL
Principal
Madanapalle Institute of
Technology & Science
MADANAPALLE

Copy to:

1. The Principal
2. Vice Principal Academics
3. PAC Members
4. Department File

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Department of Computer Science & Technology

Date: 10/05/2021

DEPARTMENT ORDER

The following faculty members of the department are requested to take up the responsibility by being the **"Department Advisory Board"** and see that things are progressing in the assigned area.

Your cooperation in this regard would be highly appreciated.

Composition and approval of DAB:

The following members are nominated and approved for constitution Department Advisory Board for the AY-2021 -22.

S.NO	Name of the Faculty	Designation	Position of DAB
1	Dr. M. Sreedevi	Professor & Head	Chairman
2	Dr. K. Dinesh	Associate Professor	Member
3	Dr. T. Kalaipriyan	Associate Professor	Member
4	Dr. S. Padma	Associate Professor	Member
5	Dr. R. Subramanian	Professor	Academic Expert
6	Prof. T. Sreenivasulu Reddy	Associate Professor	Academic Expert
7	Dr. Lakshmi Pavani Veluru	Senior Lead, HCL Technologies, Bangalore	Industry Expert
8	Mr. Venkatakrishnan R	Manager IT, Federal Bank	Industry Expert

Responsibilities of the committee:

- DAB consists of HoD, PC and the representatives of key stake holders.
- DAB receives the report of the PAC and monitors the progress of the program.
- Develops, recommends and approves new or revised program goals and objectives.

HOD
Head of the Department
Computer Science & Technology
Madanapalle Institute of Technology & Science
MADANAPALLE

PRINCIPAL
Principal
Madanapalle Institute of
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Department of Computer Science & Technology

CIRCULAR

Date: 07/07/2021

The Program Assessment Committee (PAC) meeting will be held on 14/07/2021 in the Scaleup Classroom at 10:00 AM. All the PAC members are requested to attend the meeting.

Agenda:

- Assessment of previous results and analysis of Course Outcomes (COs), Program Outcomes (POs) and Program Outcomes (PSOs) of 2019-20 Academic Year, II semester subject and 2020-21, I semester subjects.
- Discussion on proposal of R18 IV-year Curriculum.
- Discussion on proposal of R20 II-year Curriculum.
- Any other matter with the permission of the chair.

Dr. K. Dinesh
Assistant Professor
(PAC Chair Person)

Copy to:

- Department Office
- PAC Members

Department of Computer Science & Technology

Date: 13/05/2021

Program Assessment Committee (PAC) Minutes of Meeting

Meeting was held on 14/07/2021 in the Scale-up Classroom at 10:00 AM, with Dr. K. Dinesh, Associate Professor, serving as the Chair, to discuss and review the assessment method for the attainment of Course Outcomes (COs), Program Outcomes (POs), and Program Specific Outcomes (PSOs), as well as to propose the R18 Curriculum and course content for 4th Year and R20 Curriculum and course content for 2nd Year.

Agenda:

- Assessment of previous results and analysis of Course Outcomes (COs), Program Outcomes (POs) and Program Outcomes (PSOs) of 2019-20 Academic Year, II semester subject and 2020-21, I semester subjects.
- Discussion on proposal of R18 IV-year Curriculum.
- Discussion on proposal of R20 II-year Curriculum.
- Any other matter with the permission of the chair.

During the meeting, the following points were discussed:

The Department Advisory Board has set a target value of 2 for all the course outcomes (CO1 through CO5). Based on the discussion, PAC suggested the action plan for improvement in attainment level of COs and it is listed below:

Action Plan for the Academic Year 2019-2020 II Year II Semester

In the course 18BIO101 Life Sciences for Engineers, CO1 and CO2 targets were met, but CO3, CO4, and CO5 targets were not achieved. CO3, CO4, and CO5 showed lower attainment levels of 1.6, 1.2, and 1.8, respectively. To improve these outcomes, the course plan includes organizing guest lectures and awareness programs on biological systems and gene disorders.

In the course 18CST104-Digital Logic Design, CO1 and CO4 did not meet target values. The committee members suggested the action plan includes extra problems on number systems, logic gates, and synchronous sequential circuits to address deficiencies.

In the course 18CST105-Design and Analysis of Algorithms, CO1 did not meet the target value. As an action plan, the committee recommended discussing real-world problems solvable with the Divide and Conquer approach to improve CO1.

Action Plan for the Academic Year 2020-2021 III Year I Semester

In the course 18CST108 - Computer Networks, CO2 did not meet the target value. As an action plan, the committee recommended to provide multimedia materials covering the data link layer in depth.

In the course 18CST109 - Formal Language Automata and Compiler Design, CO2 did not meet the target value. As an action plan, , the committee members suggested to the faculty ensuring that students have a solid foundation in grammar, syntax, and semantics.

Action Plan for the Academic Year 2020-2021 II Year I Semester

In the course 18CST101 - Data Structures, CO1 did not meet the target value. As an action plan, the committee members suggested providing more coding exercises related to stacks and linked lists on platforms like LeetCode and HackerRank..

The committee members suggested implementing an action plan to improve the attainment level of course outcomes. This plan entails implementing strategies specifically tailored to courses where the desired attainment levels have not been achieved.

Discussion on proposal of R18 IV-year Curriculum

- Dr. R. Rajakumar recommended including industry-related courses such as machine learning and big data analytics as core courses for the I semester.
- Dr. S. Padma suggested incorporating cloud computing theory and lab in the I semester.
- Dr. K. Dinesh recommended including mobile application development theory and lab in the I semester course.
- Dr. K. Chokkanathan and Dr. R. Sendhil recommended including subjects related to Cryptography and Network Security from the AICTE suggested list in Discipline Elective – IV.
- Dr. R. Sreedevi suggested adding Blockchain and Cryptocurrency, as well as Social Network Analysis, in Discipline Elective – IV.
- Dr. R. Rajakumar recommended including the subject Large Scale Data Processing in Discipline Elective.
- Dr. S. Padma recommended incorporating Advanced Algorithms and Big Data Analytics in Discipline Elective.
- Dr. K. Chokkanathan and Dr. K. Dinesh suggested including Game Development and multimedia technologies in Discipline Elective.
- Dr. K. Dinesh suggested including the subjects Soft Computing and Wireless Sensor Systems in Discipline Elective.
- Dr. M. Sreedevi recommended including the subject Software Defined Networking in the syllabus for Discipline Elective.

- Dr. R. Rajakumar suggested including C# and .Net Programming in Discipline Elective.

- Dr. K. Chokkanathan suggested adding Human-Computer Interaction and Large-Scale Data Processing to Discipline Elective.

The committee members recommended that the Internal Department Committee (IDC) monitors the assessment of Project Work-I and Project Work-II using the provided rubrics. Additionally, they proposed that the assigned guide should encourage students to publish their project work in conferences or journals.

The recommended courses for the I semester include machine learning, big data analytics, cloud computing theory and lab, and mobile application development theory and lab. In Discipline Elective – IV, subjects related to Cryptography and Network Security, Blockchain and Cryptocurrency, and Social Network Analysis are suggested. Mobile Computing is recommended for III Year I Semester. Advanced Algorithms, Big Data Analytics, Game Development, multimedia technologies, Soft Computing, Wireless Sensor Systems, Software Defined Networking, C# and .Net Programming, Human-Computer Interaction, and Large-Scale Data Processing are proposed for Discipline Elective.

The stakeholders convened to review the academic year 2020-21, and students provided valuable feedback for curriculum enhancements. Suggestions were made to integrate statistics for data analysis and statistical inference into Probability Models and Statistics (18MAT111). Furthermore, students recommended practical applications of graphs in Data Structures (18CST101), enhancements with AWT controls in JAVA (18CST102), and coverage of recent trends in Database Management (18CST103). It was proposed to introduce a more basic component for Digital Logic Design (18CST104) and to consider syllabus reduction in Algorithms (18CST105). Additionally, students emphasized the importance of including various case studies in Operating Systems (18CST106). III-year students suggested including arithmetic operations topics in Computer Organization and Architecture, expanding content on network technologies and programming in Computer Networks, and incorporating more materials on supervised and unsupervised learning and neural networks in AI Tools, Techniques, and Applications. These suggestions will be carefully considered to enhance the curriculum.

Discussion on proposal of R20 II-year Curriculum

- The committee members considered the feedback from academic years 2019-20 & 2020-21 as input for designing the R20 Curriculum.

- The committee suggested to include the application of data structures as per stakeholder's recommendation.

- The committee chairman suggested to include probability and statistics, Financial Accounting for Engineers, Discrete Mathematics subject as per the APSCHE curriculum structure in terms of Humanities and basic science course and incorporated from R18 curriculum.

- Dr. R. Sreedevi suggested including the concepts like recovery and recent trends in Database management system and include AWT controls for Object Oriented Programming using JAVA courses as stakeholder recommendations.

- The committee members suggested including the core courses such as Data Structure, Database Management system, Object Oriented Programming using JAVA, and Operating Systems from R18 curriculum to R20 curriculum with revision of the course content as per the industry need.

- The increase the more understanding in the course Digital Logic Design the members suggested including the lab course as the Industry 4.0 revolution required based practical knowledge from digital logics.

The PAC committee members advise the course coordinator and senior faculties to review course content and syllabus. They propose aligning course objectives and outcomes with Bloom's Taxonomy for measurability and categorization. Additionally, they suggest comparing course outcomes with program outcomes to identify alignment or gaps. The Recommendation must be submitted to DAB for the verification and approval of R18 and R20 Curriculum Structure.

PAC Members:

S.No.	Name of the member	Position of PAC	Signature
1.	Dr. K. Dinesh	Chairman	
2.	Dr. M. Sreedevi	Member	
3.	Dr. R. Rajakumar	Member	
4.	Dr. S. Padma	Member	
5.	Dr. K. Chokkanathan	Member	
6.	Dr. R. Sendhil	Member	

Dr. K. Dinesh
Assistant Professor
(PAC Chair Person)

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Department of Computer Science & Technology

CIRCULAR

Date: 13/05/2021

The Department Advisory Board (DAB) meeting will be held on 15/05/2021 in the Scaleup classroom at 10:00 AM. All the DAB members are requested to attend the meeting.

Agenda:

- Assessment of previous results and analysis of Course Outcomes (COs), Program Outcomes (POs) and Program Outcomes (PSOs) of 2019-20 Academic Year, II semester subject and 2020-21, I semester subjects.
- Discussion on proposal of R18 IV-year Curriculum.
- Discussion on proposal of R20 II-year Curriculum.

Dr. M. Sreedevi
Professor & Head

Copy to:

- Department Office
- DAB Members

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Department of Computer Science & Technology

Date: 15/05/2021

Department Advisory Board Minutes of Meeting

Department Advisory Board (DAB) meeting held on 15/05/2021 in the Scaleup classroom at 10:00 AM with Dr. M. Sreedevi, Professor & Head as Chair to discuss and review the assessment method for the attainment of Course Outcomes (COs), Program Outcomes (POs). and Program Specific Outcomes (PSOs), as well as to propose the R18 Curriculum and course content for 3rd Year B.Tech. computer-related courses.

Agenda:

- Assessment of previous results and analysis of Course Outcomes (COs), Program Outcomes (POs) and Program Outcomes (PSOs) of 2019-20 Academic Year, II semester subject and 2020-21, I semester subjects.
- Discussion on proposal of R18 IV-year Curriculum.
- Discussion on proposal of R20 II-year Curriculum.

During the meeting, the following points were discussed:

- Dr. M. Sreedevi, Professor & Head, welcomed the members of the committee who has assembled for reviewing the assessment method for the attainment of Course Outcomes (COs), Program Outcomes (POs), and Program Specific Outcomes (PSOs), as well as to propose the R20 Curriculum.
- The members discussed the suggestions given by PAC members in terms of attaining Course Outcomes, Program Outcomes, and Program Specific Outcomes during a meeting held on 14/07/2021 and analyzed discussion about the R18 and R20 Curriculum.
- The committee members accepted the recommendation given by the PAC committee members and subjected to attainments.
- The committee members suggested to include courses as per industry domain such as game development, security and data science in terms of discipline elective of R18 curriculum and recommended to include Distributed and cloud computing as core course with lab component for the R18 I semester curriculum.
- The members suggested to R language as skill-oriented courses as the industry need towards R language is increasing.
- The members discussed the recommendation of PAC and verified the inclusion of stakeholder's recommendation in designing R20 Curriculum.
- The members discussed to about the standards of APSCHE structure of R20 Curriculum and suggested changing the Probability and Statistics course towards computer science specific.

The committee members verified the standard of course outcomes for each subject and consolidated them into the draft versions of the R18 and R20 curriculum.

The draft versions of the R18 and R20 curriculum have been submitted for approval by the BOS.

List of Faculty Members in the Department Advisory Committee

S.No.	Name of the Faculty	Position of DAB	Signatures
1	Dr. M. Sreedevi	Chairman	
2	Dr. K. Dinesh	Member	
3	Dr. T. Kalaipriyan	Member	
4	Dr. S. Padma	Member	
5	Dr. R. Subramanian	Academic Expert	
6	Prof. T. Sreenivasulu Reddy	Academic Expert	
7	Dr. Lakshmi Pavani Veluru	Industry Expert	
8	Mr. Venkatakrishnan R	Industry Expert	