



**R.M.D.ENGINEERING COLLEGE**  
**(An Autonomous Institution)**

**ACADEMIC YEAR 2021-2022**

**1.1.1 – (10)**

***Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution:***

Curriculum Development in accordance with Statutory Bodies The curriculum offered by the institution follow an Outcome-Based Education which are relevant to local, national, regional, and global developmental needs. They are framed strictly based on the guidelines and model curriculum prescribed by AICTE and Anna University, Chennai. Curriculum Design and Structure of the Program The feedback from the stakeholders including faculty, students, alumni, and industrial experts is taken into account while developing the curriculum and the syllabus. Academic activities of the institution are well planned and effective documentation process is in place. RMDEC follows the curriculum and syllabi prescribed by Anna University for the third year and final year courses and the Autonomous curriculum and syllabi for the first year and second year courses. The curriculum was developed by the College after consulting with subject-matter experts and stakeholders. Included were pertinent subjects required to achieve goals outlined in the UNDP Sustainable Development Goals, such as technical skills for employment and entrepreneurship.

The curriculum includes Foundation Courses, Professional Core Courses, Professional Electives, Open Electives, Employability Enhancement Courses, Online Courses, Value Added Courses, Special Electives, and Project Work. It provides a strong theoretical foundation combined with practical engineering expertise with an emphasis on Professional, Social and Ethical Responsibility as well as addresses global issues related to Environment and Sustainability.

Academic calendar is prepared aligning with the University calendar for effective curriculum delivery. Every department has defined vision and mission matching to the institutional vision and mission. Programme Educational Objectives (PEO) and Program Outcomes (PO) are specified for each programme and Course Objectives (CO) and course outcomes are defined for each course. The curricula promote character development, ethical and constitutional principles, intellectual curiosity, a scientific mindset, creativity, and the NEP 2020-proposed spirit of service in addition to enabling the acquisition of deeper information in specific areas of interest. The intellectual, occupational, environmental, social, and spiritual needs of the present generation of students are directly and consciously used to determine learning objectives. The degree to which students have attained knowledge acquisition and skill development is shown by the alignment of the PO-PSO-CO framework.

The College provides courses through 5 programmes that use outcome-based education (OBE), which is in keeping with the College's vision and mission and reflects the graduate qualities of the Learning Outcomes-based Curriculum Framework (LOCF). Program

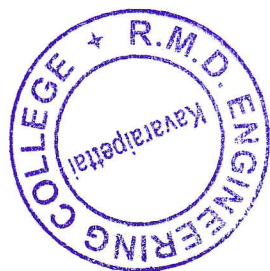
Outcomes (POs), Program Specific Outcomes (PSOs), and Course Outcomes (COs) are all framed under OBE with a focus on the local, regional, national, and international needs for development. The PSOs and COs are designed to transmit the spirit of the POs, which are partially attained at the end of each course and fully at the end of each programme. At the conclusion of each course and programme, the results are evaluated. Every program's PSO and CO reflect the POs' emphasis on outcome-oriented knowledge communication and research orientation.

The rapidly changing nature of the economy and society is always taken into consideration while developing or updating the curricula. As a result of the advent of Industry 4.0 and the need for human resources in the fields of Artificial Intelligence, Machine Learning, new programmes have been introduced in some of these fields, and new courses have been added to some of the existing programmes.

By including representatives from industry stakeholder groups in our academic statutory organisations, such as the Programme Advisory Committee and Boards of Studies at the departmental level and the Academic Council at the institutional level, all the curriculum are designed or updated. Reputable alumni who hold executive positions in businesses as well as reputable academics from institutions of higher learning like IITs, IISc, and NITs can provide information on societal and industrial demands. The college faculty members' academic knowledge gathered through their activities in teaching, research, and consulting is used to build and enhance the curricula.

The curriculum are created and implemented as an independent college within the confines of the rules established by regulating organizations like Anna University, UGC, and AICTE. The gap in the curriculum is addressed through demonstrating experiments beyond curriculum and conducting tutorial classes, value added courses, seminars, conferences, arranging guest lectures and industrial visits to supplement the curricular inputs. Student chapters of professional bodies are actively functioning in the campus. soft skill training through AMCAT, BEC, COE is done.

Industrial Internship is a part of the curricula which exposes them to real time practices and problems faced by industries and come up with solutions. Thus the curriculum enhances the employability of students and makes them industry ready. Industrial visits are arranged for students at least twice a year in order to expose them to industrial practices. Curriculum meets local, national, regional, and global development needs The curriculum provides an in-depth knowledge in science, engineering and managerial skills. In addition to employability, the courses are aimed at enhancing entrepreneurial skills of the students towards the national mission "Make in India" resulting in the economic growth of the country.



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14/10/21  
Principal

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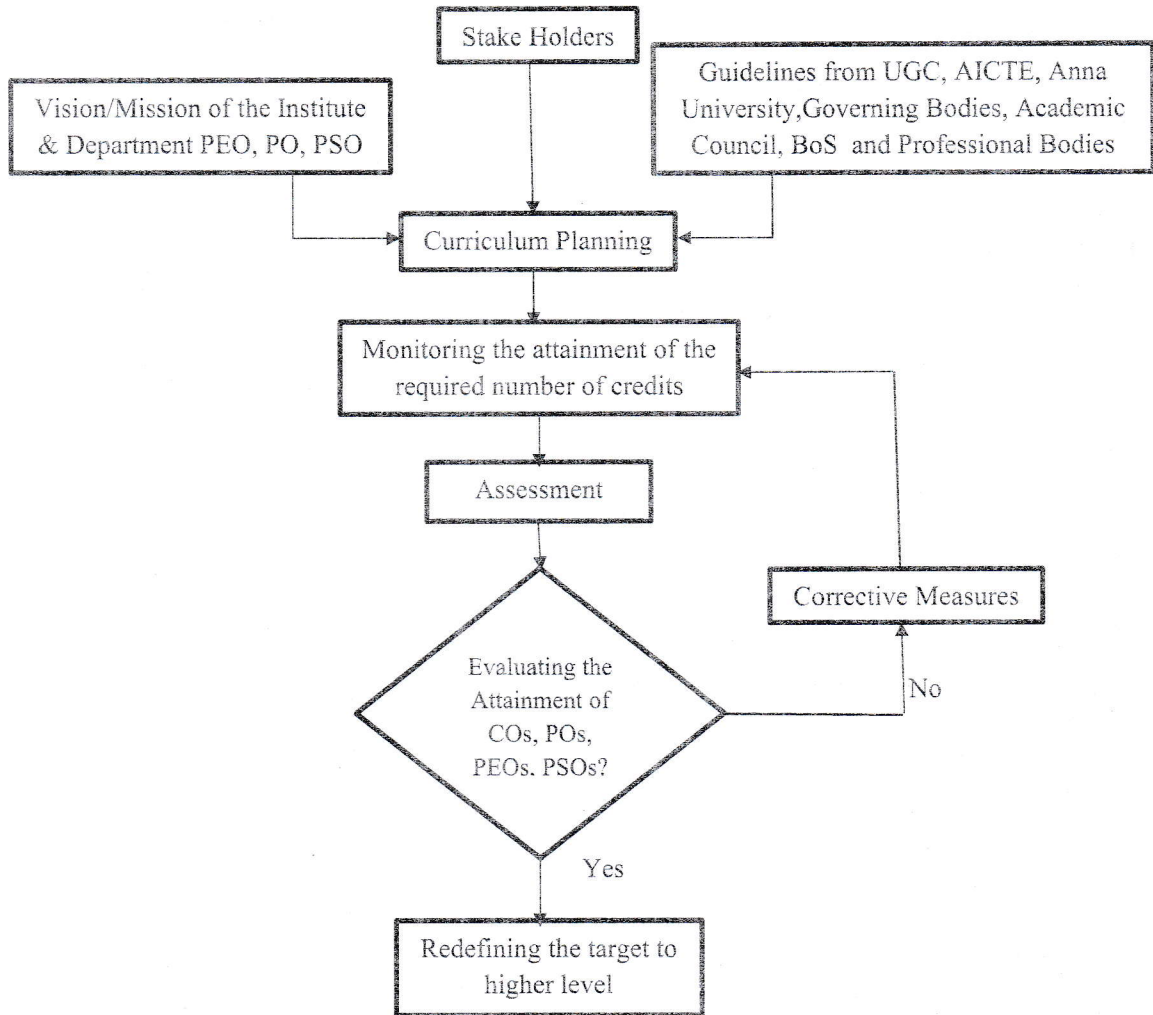


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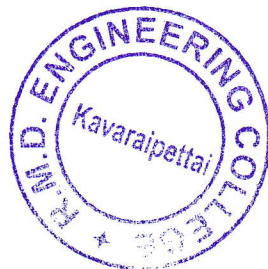


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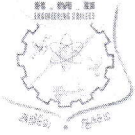
**Curriculum Planning and Implementation**



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Principal



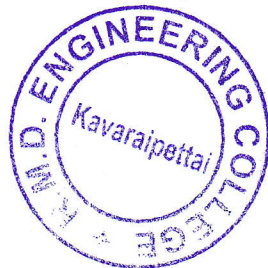
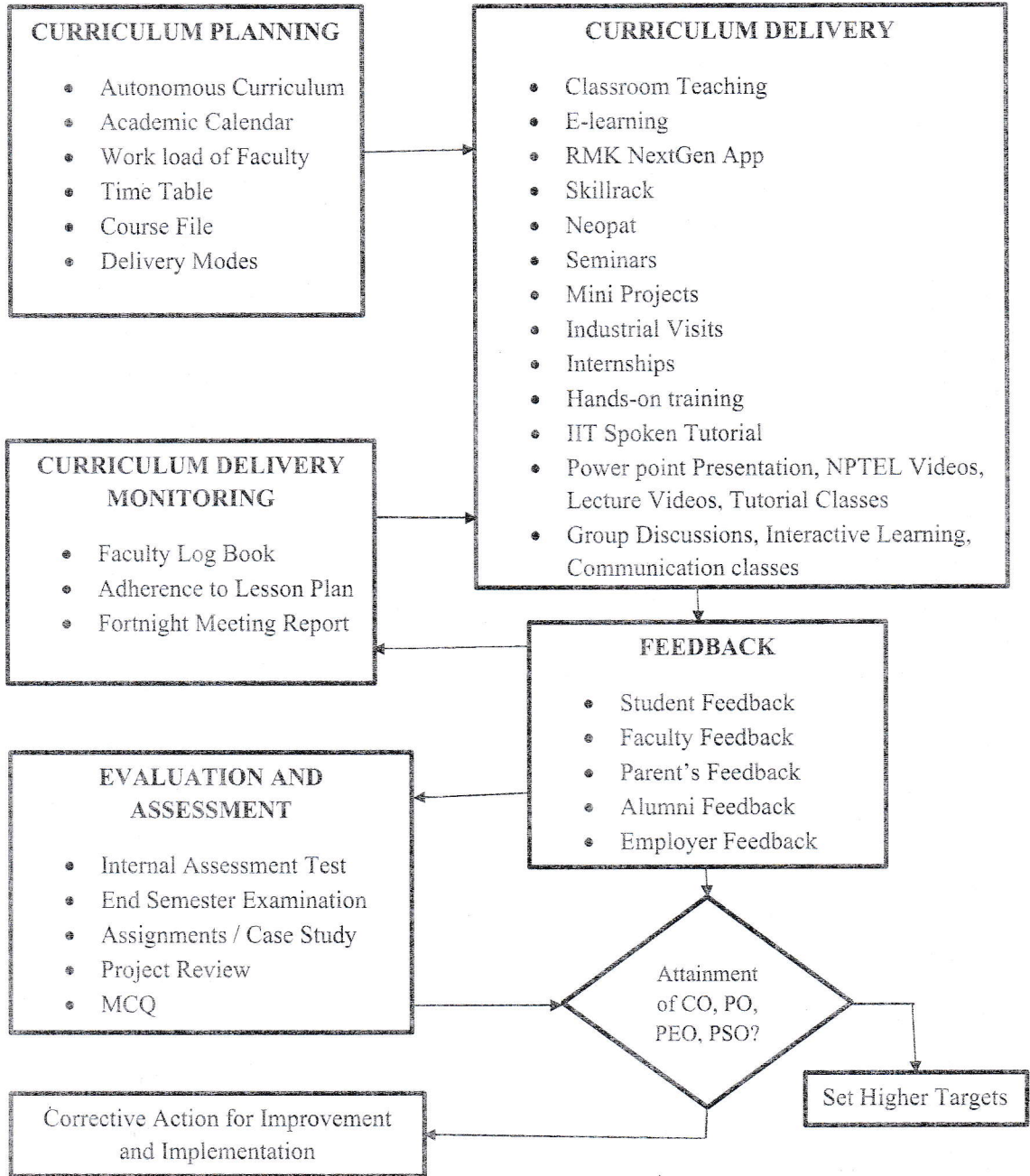
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Principal 19/10/21

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