

**MALLA REDDY ENGINEERING COLLEGE
(Autonomous)**

Maisammaguda, Dhulapally (post & via Kompally), Secunderabad-500100.

Department of Computer Science & Information Technology

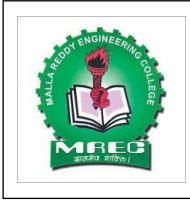
DATA VISUALIZATION-R PROGRAMMING/POWER BI

SUBJECT CODE: C0514

B.Tech-III Semester (MR23)



ACADEMIC YEAR: 2024-2025



Malla Reddy Engineering College

(UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad and Accredited 3rd cycle by NAAC with 'A++' Grade)
Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad, Telangana State – 500100,
www.mrec.ac.in

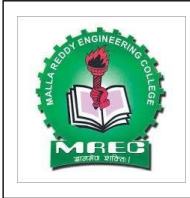
Department of Computer Science & Information Technology

INSTITUTION VISION

To be a premier center of professional education and research, offering quality programs in a socio-economic and ethical ambience.

INSTITUTION MISSION

- To impart knowledge of advanced technologies using state-of-the-art infrastructural facilities.
- To inculcate innovation and best practices in education, training and research.
- To meet changing socio-economic needs in an ethical ambience.



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DEPARTMENT VISION

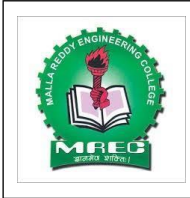
To Attain Global Standards in the Teaching, Training, and Research of the IT Industry that Strike a Balance between the Rising Needs of the Sector and the Socio-Economic and Ethical Needs of the Society.

DEPARTMENT MISSION

M1: To Impart Quality Education and Research to the Students in Information Technology.

M2: To Train the Students in Advanced Technologies using State-of-the-Art Facilities.

M3: To Build the Knowledge, Skills and Aptitude to Succeed in the Information Technology Industry through Ethical Values and Social Relevance.



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PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO1: To outshine in professional career with sound problem solving ability for providing IT solutions by proper plan, analysis, design, implementation and validation.

PEO2: To pursue training, advance study and research using scientific, technical and communication base to cope with the evolution in the technology.

PEO3: To utilize the acquired technical skills and knowledge **for the benefit of society**

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: Identify the mathematical abstractions and algorithm design techniques together with emerging Software Tools to solve complexities indulged in efficient programming.

PSO2: Apply the core concepts of current technologies in the hardware, software domains in accomplishing IT enabled services to meet out societal needs.

PSO3: Practice modern computing techniques by continual learning process with ethical concerns in establishing innovative career path.



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PROGRAMME OUTCOMES (POs)

PO 1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering Fundamentals and an engineering specialization to the solution of complex engineering problems.
PO 2	Problem analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO 3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO 4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO 5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern Engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO 6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO 7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO 8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO 9	Individual and team work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
PO 10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11	Project management and finance: Demonstrate knowledge and understanding of the Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO 12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



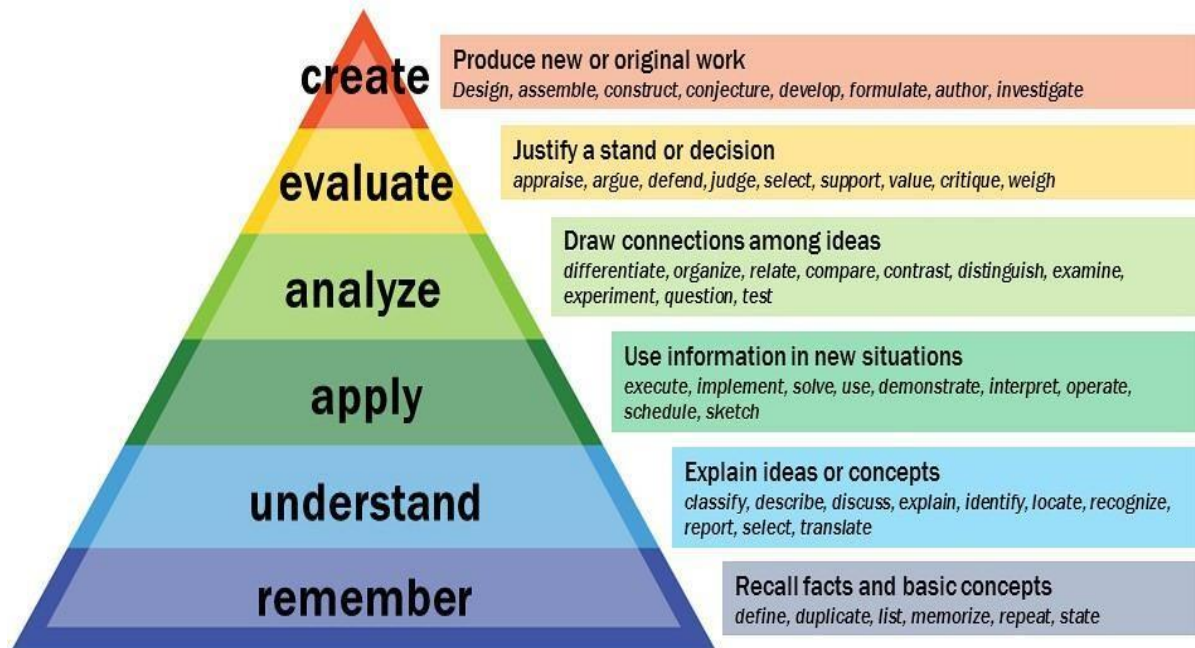
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Bloom's Taxonomy Triangle

Bloom's Taxonomy



Vanderbilt University Center for Teaching