PRAGATI ENGINEERING COLLEGE

(Autonomous)

[Approved by AICTE, New Delhi & Permanently Affiliated to JNT University, Kakinada]
[Conferred with 'A' Grade by NAAC & Recognized under 2(f) and 12(b) of UGC Act]
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(Sponsored by Gayatri Educational Society, Kakinada)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Vision of CSE Department:

To emerge as a centre of technical expertise in the field of computer science and engineering by producing globally competent professionals with technical & research capabilities, ethical values and team spirit.

The Mission of CSE Department:

- M1- To produce qualified and competent software professionals.
- M2- To induce application oriented and research capabilities instudents for the betterment of society.
- M3- To inculcate ethicsand human values in students so as to adapt to the dynamism in the field of computing technology.

PEO:

- **PEO-1**
  To provide students with a strong foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems.
- **PEO-2**
  To develop an ability to analyze, design and develop novel engineering solutions.
- **PEO-3**
  To make the students responsible with ethics, best practices, values and social concerns to meet requirements of responsible team player in the society.

PO:

- **PO-1:** Gain an ability to apply knowledge of mathematics,science and engineering in their chosen fields with in computer science & Engineering.
- **PO-2:** Develop the competencies to identify,analyze,and formulate engineering problems.

- **PO-3:** Ability to apply the techniques and skills with proficiency to design and develop appropriate computer based systems (processes, components and /or programs) for identified requirements.
- **PO-4:** Ability to design,experiment to analyze, interpret, and synthesize data in order to come out with appropriate conclusions.
- **PO-5:** Ability to select, apply appropriate techniques, recourses and tools to model complex problems.
- **PO-6:** Adopt technology to the needs of the society keeping in mind various cultural, health, safety and legal issues.
- **PO-7:** Adopt professional engineering approach to address the causes of environmental hazards and contribute to ecologically sustainable development.
- **PO-8:** To follow professional ethics as per IEEE standards.
- **PO-9:** Ability to work in teams at any role to maximize the throughput.
- **PO-10:** Ability to communicate effectively and convince all stakeholders through reports, presentation with clear instructions.
- **PO-11:** Ability to deliver interdisciplinary projects within budget and scheduled by planning, controlling and completing projects using appropriate engineering and management tools.
- **PO-12:** Capable of keeping oneself up-to-date in technology and tools by continuous learning and participating in professional bodies like IEEE, CSI, and ISTE.

PSO:

1. To make the students able to propose software based solutions to the real world problems.
2. To develop computing applications.
3. Test and maintain software based projects.