PRAGATI ENGINEERING COLLEGE

(Autonomous)

ADB Road, Surampalem, E.G.Dt., A.P. – 533 437

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada)

(Recognized by UGC Under Sections 2(f) and 12 (B) of UGC act, 1956)

Ph: 08852 – 252233, 34. Website: www.pragati.ac.in

Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences.

Pragati Engineering College (PEC) recognizes the importance of providing a holistic and effective learning experience to its students. The college employs student-centric methods, such as experiential learning, participative learning, and problem-solving methodologies to enhance the learning process. Additionally, the college leverages ICT-enabled tools, including online resources, to facilitate effective teaching and learning.

Experiential Learning:

At PEC, experiential learning is a key component of the teaching and learning process. This approach focuses on hands-on experiences, enabling students to actively engage with the subject matter. The college encourages practical sessions, laboratory work, and project-based learning, where students apply theoretical concepts to real-world scenarios. This approach not only enhances students' understanding but also fosters critical thinking, problem-solving, and teamwork skills. By immersing themselves in practical tasks, students develop a deeper appreciation for the subject matter and gain valuable insights that go beyond textbook knowledge.

Participative Learning:

PEC promotes participative learning, recognizing the significance of active student involvement in the learning process. In this approach, students become active participants rather than passive recipients of information. The college encourages interactive classroom discussions, group activities, and peer-to-peer learning, where students collaborate, share ideas, and learn from each other's perspectives. Participative learning not only enhances students' communication and interpersonal skills but also promotes a deeper understanding of the subject matter. By actively engaging with their peers and instructors, students develop a sense of ownership over their learning journey, leading to increased motivation and academic achievement.

Problem-Solving Methodologies:

Problem-solving methodologies form an integral part of the learning process at PEC. To encourage students to experiment with new ideas, the institute has established Various Industry 4.0 Clubs. The college believes in equipping students with the skills to identify and solve complex problems. Through case studies, simulations, and challenging assignments, students are encouraged to think critically, analyze situations, and propose innovative solutions. This approach fosters creativity, analytical thinking, and decision-making abilities, which are essential in the professional world. By tackling real-life problems, students develop resilience and confidence, preparing them to face the challenges of their future careers.

ICT-Enabled Tools and Online Resources:

In an increasingly digital world, PEC recognizes the importance of integrating Information and Communication Technology (ICT) into the teaching and learning process. The college employs a variety of ICT-enabled tools, including online resources, to enhance the effectiveness of education delivery. These tools provide students with access to a vast array of learning materials, including e-books, research articles, interactive modules, and multimedia presentations. By leveraging online resources, students can supplement their classroom

learning, explore topics in depth, and stay updated with the latest developments in their field of study. The use of ICT tools also enables teachers to deliver content in a more engaging and interactive manner. Through multimedia presentations, simulations, and virtual experiments, complex concepts can be visualized and understood more effectively. Online platforms and learning management systems facilitate communication and collaboration between students and teachers, allowing for seamless exchange of information, assignment submissions and feedback. Moreover, ICT tools provide students with the flexibility to learn at their own pace, catering to individual learning styles and preferences.