



**Department of Technical Education  
Government of Andhra Pradesh  
Government Institute of Chemical Engineering  
Visakhapatnam**



**Program Educational Objectives (PEOs)**

**PEO-1 Preparation towards Employment/Higher Studies:** The primary objective is to produce best work-force i.e. Diploma in Chemical Engineering (Plastic & Polymer) technicians to cater the growing needs of the industries in modern topics which will also be useful to the higher-level studies.

**PEO-2 Core Competence:**

To prepare the students towards core Chemical Engineering skills, to expertise the students in presentation skills, Industrial Training & Practical skills, Advanced Developments.

**PEO-3 Professionalism - 3 Ps - Professional Value-Knowledge Development:**

To promote the student in Professionalism, Personality & Presentation through the successful completion of Diploma in Chemical Engineering (Plastic & Polymer) by emphasizing through field practices in Industry.

### **Program Outcomes (POs):**

**PO1 Basic and Discipline specific knowledge:** Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

**PO2 Problem analysis:** Identify and analyze well-defined engineering problems using codified standard methods.

**PO3 Design/ development of solutions:** Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

**PO4 Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

**PO5 Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.

**PO6 Project Management:** Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

**PO7 Life-long learning:** Ability to analyze individual needs and engage in updating in the context of technological changes.

### **Program Specific Outcomes (PSOs)**

**PSO1:** An ability to understand the concepts of Chemical Engineering and apply them to various Chemical Engineering industries.

**PSO2:** An ability to solve complex Chemical engineering problems, using latest analytical skills to arrive appropriate solutions.

**PSO3:** Wisdom of social and environmental awareness along with ethical responsibility to have a successful career in the field of Chemical engineering.