



# CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY (CIPET)

## CENTRE FOR SKILLING AND TECHNICAL SUPPORT (CSTS) - MADURAI

### *Diploma in Plastics Technology (DPT)*

#### Vision of the institute

- An Institution of national repute working in close proximity with industry to supply futuristic manpower and technological advancements in plastics and allied industry.

#### Mission of the institute

1. To offer a blend of contemporary and futuristic academic as well as skill development programme imbued with entrepreneurial spirit.
2. To provide support for incubation or start-up of locally relevant technologies, products and services.
3. To provide Technological support in the fields of design, tooling, plastics processing, testing & quality assurance and inspection services to the plastics industries through a Quality Management System.
4. To develop an effective networking with relevant industries and institutions/organizations.

#### Vision of the Department

- To make suitable & successful professionals in the field of Polymer Science & Technology (Plastic Technology) in order to ensure sustainable growth.

#### Mission of the Department

1. To provide blend of well-balanced curriculum and skill development training program in the field of (Plastic Technology) Polymer Science & Technology.
2. Demonstrate the knowledge to the trainee in order to meet & match the need of Indian & Global companies & also to provide support to the companies in the form of consultancy service.
3. To prepare the students to extend & enhance the knowledge in the field of Polymer Science & Technology (Plastic Technology) for Higher Education.

#### Program Educational Objectives (PEO's)

1. To establish the fundamental skills required for producing good-quality plastics products.
2. To develop a technical work-force that meets the demands of the plastics industry.
3. To create professionals who are responsible and capable of performing independent technical tasks.
4. To develop leadership skill, ethical values, take responsibility and integrity and loyalty towards organizations among students.
5. To inspire students to pursue lifelong learning as means of improving their technical Knowledge and skill.

#### Program Outcomes (PO's):

1. Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
2. Problem analysis: Identify and analyse well-defined engineering problems using codified standard methods.
3. 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.
4. Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
5. Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.
6. 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.
7. Life-long learning: Ability to analyse individual needs and engage in updating in the context of technological changes.

#### Program specific outcomes (PSO's)

1. An ability to understand the concepts of basic Plastic Manufacturing processes and to apply them to various areas like Raw material modification, Design of Product, Mould & Dies, Processing & Quality assurance etc.
2. An ability to solve complex problems of Plastic Manufacturing, using latest hardware and software tools along with analytical skills to arrive cost effective and appropriate solutions.
3. Wisdom of social and environmental awareness along with ethical responsibility to have a successful career and to sustain passion and zeal for real-world applications using optimal resources as an Entrepreneur.

