



**CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY (CIPET)**  
**CENTRE FOR SKILLING AND TECHNICAL SUPPORT (CSTS) - MADURAI**

***Diploma in Plastics Mould Technology***

*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 enrich professionals with knowledge, skill and attitude for the manufacturing of quality mould for plastics products.

*Mission of the Department*

1. To develop high level competencies in designing, manufacturing and inspecting the Mould, Dies and Tools.
2. To train the students with state of the art advanced machining techniques using CAD/CAM/CAE software for efficient mould manufacturing.
3. To impart technical exposure to student through intensive interaction by practical demonstration, industrial visit and computer based simulation.
4. To establish effective network with related industries, institutions/organizations.

*Program Educational Objectives (PEO's)*

1. Provide competency to the students to identify the machining process, plan tooling, design & development of the mould and dies.
2. Professionally perform operations on machines including computer based automated machines for manufacturing mould elements.
3. To inculcate students with leadership skills with high level of integrity and ethical values for team building and team work.
4. To motivate student to upgrade their technical skill and knowledge through lifelong learning.

*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. The capacity to interpret the theory of Plastic Mould Design & Manufacturing using the latest tools to make mould elements in compliance with relevant specifications.
2. The capacity to identify and resolve the problems in the area of Manufacturing of Plastic Moulds & Dies.

