

INSTITUTE VISION & MISSION

VISION

To become an apex Institute of International repute in the field of Petrochemicals Engineering and Technology and ensure sustainable growth.

MISSION

- To offer blend of specialized Academic and Skill Development Training Programs in the field of Petrochemicals Engineering & Technology in order to provide qualified Human Resources with entrepreneurship qualities for Petrochemical & Allied Industries;
- To provide Technology Support in the form of Consultancy Services in the fields of design, tooling, plastics processing, testing & quality assurance and Inspection Services to the Petrochemical Industries including plastic industries through a Quality Management System;
- Dedicated R&D wings on Petrochemicals will develop New Technology, Applications & Handholding Entrepreneurs by Technology Transfer, Intellectual Property (IP) and Knowledge Base.



Principal Director & Head



DEPARTMENT OF PLASTICS TECHNOLOGY

DEPARTMENT VISION & MISSION

VISION

To enrich professionals with knowledge, skill and attitude in the field of Plastics Material, Processing & its Quality Control by understanding the characteristics of various Plastics Materials & Additives.

MISSION

- 1. To offer fundamental knowledge on various Plastics materials, processing conditions, testing & its application.
- 2. To emphasize on technical exposure through intensive practical work, demonstration, industrial visits using advance equipments/machines etc.
- 3. To build Industry Institute linkage for development of skill & to understand the need of industries in day to day life.



Place: Bhopal

Principal Director & Head



DEPARTMENT OF PLASTICS TECHNOLOGY

PROGRAM OUTCOMES (POs)

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 analyses well-defined engineering problems using codified standard method.

3. **Design/ Development of Solutions:** Design solutions for well defined technical problems & assist with the design of system components or processes to meet specific needs.

4. **Engineering Tools, Experimentation and Testing**: Apply modern engineering tools and appropriate techniques to conduct standards 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 principals individually, as a team member or a leader to manage project and effectively communicate about well defined engineering activities.

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

PROGRAM SPECIFIC OUTCOMES (PSOs)

1. The capacity to interpret the various types of Plastics Materials &its Processing technologies to meet desired requirements of a product for suitable application.

2. The capacity to handle the process by troubleshooting the faults arises during the manufacturing process of plastics products and assuring its quality using advanced Testing/characterization Techniques as per national/international standards.



Principal Director & Head



DEPARTMENT OF PLASTICS TECHNOLOGY

Program Educational Objectives (PEOs)

The Programme is expected to:

- 1. To embed the core competencies in professional for manufacturing of good quality plastics products..
- 2. To develop technical manpower in accordance with the needs of Plastic Industries.
- To Develop Technicians with in-depth knowledge and adjustable in industrial shop floor & laboratory exposure in the field of Plastic Technology.
- 4. To develop leadership skill, sense of responsibility, ethical values and integrity towards organizations among students.



Principal Director & Head



DIPLOMA IN PLASTICS MOULD TECHNOLOGY

DEPARTMENT VISION & MISSION

VISION

To enrich professionals with knowledge, skill and attitude by understanding Product Design criteria & Manufacturing of Mould & tools using suitable Advance Technology.

MISSION

- To impart fundamental knowledge of engineering and its practical application by developing state-of- the-art facilities for the department of Plastics Mould Technology.
- 2. To develop high level competencies in designing, manufacturing and inspecting the Mould, Dies and Tools & using CAD/CAM/CAE software.
- 3. To build Industry Institute linkage for quality improvement by promoting participation of industries in the area of consultancy.



Principal Director & Head



DIPLOMA IN PLASTICS MOULD TECHNOLOGY

PROGRAM OUTCOMES (POs)

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 analyses well-defined engineering problems using codified standard method.

3. **Design/ Development of Solutions:** Design solutions for well defined technical problems & assist with the design of system components or processes to meet specific needs.

4. **Engineering Tools, Experimentation and Testing**: Apply modern engineering tools and appropriate techniques to conduct standards 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 principals individually, as a team member or a leader to manage project and effectively communicate about well defined engineering activities.

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

PROGRAM SPECIFIC OUTCOMES (PSOs)

- 1. To apply the knowledge of design, material science and manufacturing to implement the various concepts of Plastic Moulds & Dies.
- 2. To apply the knowledge of CAD/CAM technology in design and development of advanced Plastic Moulds & Dies.



Principal Director & Head



DIPLOMA IN PLASTICS MOULD TECHNOLOGY

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The Programme is expected to :

- To inculcate ability in creativity & design of Plastic Components and impart knowledge and skills for analyze, design, test and implement various machineries of Mechanical & Plastic Engineering.
- 2. Provide competency to the students to identify the machining process, plan tooling, design & development of the Mould and dies.
- To create awareness towards social, environmental and energy related issues and emphasize on effective communication skill and professionalism.
- 4. To prepare skilled Technicians who contribute towards professional Development.



Place: Bhopal

Principal Director & Head