

CODE: TR1

TOOL ROOM

Basic Measuring Tools and GD & T

Duration : 16 hrs / Two days
 Proposed dates : 05-08-2019 & 06-08-2019
 09-12-2019 & 10-12-2019
 19-03-2020 & 20-03-2020
 Fee : Rs.10,000 / person + GST 18%

Cordinator : **Mr. Radhakrishnan. P**
 ☎ 9677123892

Contents: Basic Measuring Tools – Steel Ruler, combination squares, depth gauges - Fundamentals and Linear Tools – Calipers, Vernier, Dial, electronic - Micrometers and Dial Indicators – OD, ID and electronic micrometers - Fixed Gauges – Snap, plug and ring gauges & Screw Thread gauges - Surface Plate Equipment – Gauge blocks – Height gauges - Basic Principles on GD & T. Interpreting GD & T Symbols- Form and Orientation Tolerances - Profile, Runout & Location Tolerances

CODE: TR2

TOOL ROOM

Mould Design & Mould Making

Duration : 16 hrs / Two days
 Proposed dates : 11-07-2019 & 12-07-2019
 28-11-2019 & 29-11-2019
 27-02-2020 & 28-02-2020
 Fee : Rs.10,000 / person + GST 18%

Cordinator : **Mr. A.Velladurai**
 ☎ 9677123890

Contents: Injection Mould Fundamentals
 Mould Machining Methods, Part 1 – Conventional and CNC Milling, Conventional and CNC Lathe, Conventional and CNC Surface Grinding - Mould Machining Methods, Part 2 – Conventional and CNC die sinking EDM - CNC wire EDM – Polishing – Inspection equipment. 2-Plate, 3-Plate, and Hot Runner Moulds - Mould Bases, Tools Steels & Heat Treating - External and Internal Actions- Part Ejection, Venting and Cooling Gating Methods - Runners, Filling Software & The Mould Design Process.

TEDP COURSES

1. Recycling of Plastics Materials & Waste Management

Duration: 6 weeks 14.10.2019 to 05.12.2019

2. Plastics Recycle & Bio Degradation of Plastics

Duration: Six weeks 06.01.2020 to 27.02.2020

Registration Fee : Rs. 1000/-

Sponsored by : DST, NIMAT

CIPET: IPT Chennai conducts Technology based Entrepreneurship Development Program for the Participants who has interest in setting up an Industry and to become as a young Entrepreneur

Cordinator : **Mr. A.Ravichandran**
 ☎ 9600254350

Contents:

TEDP program gives Training to the participants to have expertise knowledge with hands on experience. Guest lectures are arranged from MSME, Tamilnadu Industrial Investment Corporation Ltd and Banking sectors. Special guidance is given for preparing Projects.

TAILOR MADE COURSES

CIPET, IPT, Chennai also conducts Tailor Made Courses exclusively for the participants from any company either at company's premises or at CIPET, Chennai. The contents of the course can be customized based on their requirement or by CIPET.

Further details Contact :

**THE PRINCIPAL DIRECTOR & HEAD
 CIPET : INSTITUTE OF
 PLASTICS TECHNOLOGY (IPT)**

TVK Industrial Estate, Guindy,
 Chennai 60032

Tel : 044-22254701-6 | Fax : 044-22254707

Email: chennai@cipet.gov.in

Website : www.cipet.gov.in

Short Term Course

ANNUAL CALENDAR

2019-2020



Skill

Technology

Academics

Research



CIPET सि.पे.ट.
 Probe - Perform - Practice - Plastics

CIPET : INSTITUTE OF PLASTICS TECHNOLOGY (IPT)

(Department of Chemicals & Petrochemicals,
 Ministry of Chemicals & Fertilizers,
 Government of India)

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🌐 www.cipet.gov.in



CIPET PROFILE

- Central Institute of Plastics Engineering & Technology (CIPET) is Premier National Institution functioning under the Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India.
- CIPET, Chennai is an ISO 9001:2008 certified institute and its activities are focused in the areas of Product / Mould Design, Tool Room, Processing and Testing. The centre is also accredited with ISO- 17025, ISO-17020 and render plastic testing and Inspection services.
- CIPET, Chennai is providing Technology Support Services in the area of Tooling, Precision Machining and Product/Tool Design. The Institute has state-of-the-art facility in terms of machinery and equipments in the area of Design, Tool Room, Processing, Testing and CAD/CAM/CAE.
- CIPET Chennai offers Post Graduate, Under Graduate, Diploma, Post Graduate Diploma, Free Skill Development training programs and Shot-term Tailor-made training programmes in the areas of Plastics Engineering & Technology to fulfill the human resource requirements of polymer and allied industries in the country.



CODE: P1 PROCESSING

INJECTION MOULDING –PRODUCTION

Duration : 16 hrs / Two days
 Proposed dates : 10-06-2019 & 11-06-2019
 10-10-2019 & 11-10-2019
 10-02-2020 & 11-02-2020
 Fee : Rs.10,000 / person + GST 18%

Cordinator : **Mr. S.Vijayakanth**
 ☎ 8170031772

Contents: Plastic Materials and its Properties - Proper Material handling techniques Processing Characteristics of Virgin and Re grind. - Trouble Shooting defects / process optimization - Guidelines for setting each processing parameter - Safety - Operator safety - Machine Safety - Proper clamp and part removal settings. - Procedures for proper injection velocity profiles setup. - Injection Moulding Machine Maintenance.

CODE: P2 PROCESSING

PRINCIPLES OF EXTRUSION BLOW MOULDING

Duration : 16 hrs / Two days
 Proposed dates : 27-06-2019 & 28-06-2019
 28-10-2019 & 29-10-2019
 27-02-2020 & 28-02-2020
 Fee : Rs.10,000 / person + GST 18%

Cordinator : **Mr. S.Vijayakanth**
 ☎ 8170031772

Contents: Blow Moulding Materials and its Properties - Resin processing Characteristics - Heat and Pressure effects - Blow Moulding Overview - Types of M/cs - Blow Moulding Techniques - Blow Moulding Machine - Drive system - Control Panel - Blow pins - Material Conveying Systems - Silo - Preblend system - Hopper loaders - Safety - Operator safety - Machine Safety - Processing - Start up and shut down - Trouble shooting methods - Machine side Training - Routine Adjustments - Parison lengths - cycle time

CODE: D1 DESIGN

FUNDAMENTALS OF PLASTICS PRODUCT DESIGN

Duration : 16 hrs / Two days
 Proposed dates : 06-05-2019 & 07-05-2019
 05-09-2019 & 06-09-2019
 06-01-2020 & 07-01-2020
 Fee : Rs.10,000 / person + GST 18%

Cordinator : **Mr. Lakshmanan. S**
 ☎ 96771 23891

Contents: Plastic materials - Properties - Mechanical - Thermal - Electrical - Processing Methods - Optimizing - Moulding defects - Trouble shooting - Product Design features - Wall thickness - Rib, Bosses, Gussets, Undercuts - Product Design features - Draft - Holes - Tolerancing - Moulded in threads - Structural Considerations - Stiffness - Impact - Long & Short term loading - Design for Assembly - Press fits - Snap fit - Welding - Insert Moulding - Post Moulding Process - MoldFlow Analysis reports - Important parameters to check

CODE: D2 DESIGN

FUNDAMENTALS OF INJECTION MOULD DESIGN

Duration : 16 hrs / Two days
 Proposed dates : 27-05-2019 & 28-05-2019
 26-09-2019 & 27-09-2019
 30-01-2020 & 31-01-2020
 Fee : Rs.10,000 / person + GST 18%

Cordinator : **Mr. Ravichandran**
 ☎ 96002 54350

Contents: The moulding cycle - Mould Classifications - Nomenclature and function of mould components - Mould Details - Design steps - The Cavity and Core - Runner systems - Conventional - Runnerless - Gate types - Temperature Control - Vents - Ejector systems - Interlocks - Mould Actions and Undercuts - Unscrewing Moulds - Shrinkage of Plastics and Rates - Plastic Part Analysis

CODE: T1 TESTING

TESTING AND QUALITY CONTROL OF PVC & HDPE PIPES

Duration : 16 hrs / Two days
 Proposed dates : 11-07-2019 & 12-07-2019
 04-11-2019 & 05-11-2019
 09-03-2020 & 10-03-2020
 Fee : Rs.10,000 / person + GST 18%

Cordinator : **Mr. T. Murugesan**
 ☎ 94440 80691

Contents: Plastic Materials used for Pipes - LDPE, MDPE, HDPE & UPVC - Additives used for Pipes - Compounding of UPVC Material. Testing of HDPE pipes as per IS:4984 - Testing of UPVC Pipes as per IS:4985 & IS:12818 - Mechanical Lab, Thermal Lab practical Demo. - Pipe Extrusion Technology - Overview

CODE : T2 TESTING

PLASTICS RECYCLING & BIO DEGRADATION TECHNIQUES

Duration : 16 hrs / Two days
 Proposed dates : 29-07-2019 & 30-07-2019
 28-11-2019 & 29-11-2019
 30-03-2020 & 31-03-2020
 Fee : Rs.10,000 / person + GST 18%

Cordinator : **Dr. K.P. Bhuvana**
 ☎ 9894398623

Contents: Plastic materials & Recycling Overview - Fundamentals of Plastics Processing Techniques. - Processing Shop floor - Practical Exposure - Identification & Sorting of Plastics and Recycling Techniques - Plastics Waste management and Environmental legislation and code practices - Biodegradation - An overview Biodegradation tests as per ASTM D 5338, ISO 14855, ASTM D 6400, ISO 17088 -Oxo - Biodegradation tests as per ASTM D 6954 Live demonstration on Biodegradation Techniques