



CIPET



ANNUAL CALENDAR FOR SHORT TERM COURSES 2009 – 2010

CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY GUINDY, CHENNAI – 600 032.

For further details, please write to: THE DEPUTY DIRECTOR, CIPET, GUINDY, CHENNAI – 600 032.

Grams : CIPET Tel No. : 22254701-6 Fax : 91-44-22254707 Email : cipetchn@eth.net Website: www.cipet.gov.in

Certified ISO 9001 : 2000 by

PROCESSING

1. INJECTION MOULDING PROCESS(Code:P-1)

Period/Duration: 26.08.2009 to 28.08.2009 / Three Days Course Fee: Rs.4,500/- Target : 25 Course Co-ordinator : Mr. S K MUNIYANDI

Contents:

Processing overview - Plastics Materials & its Application - Injection Moulding Process - Advanced Injection Moulding - Effect of Polymer Property on Process Techniques - Process variables & its effects, Trouble Shooting - Mould and Product Design - Processing Practicals on Injection Moulding.

2.INJECTION MOULDING & BLOW MOLDING PROCESS (Code : P-2)

Period/Duration: 27.01.2010 to 29.01.2010 / Three Days Course Fee : Rs.4,500/- Target : 25 Course Co-ordinator : Mr. R T NAGARALLI

Contents :

Processing Overview – Plastic Materials and its application – Injection Moulding Process - Advanced Injection Moulding - Blow Moulding Process –Types - Effect of Polymer Property on Process Techniques - Process variables & its effects in Injection Moulding & Blow Moulding - Trouble Shooting - Mould & Product Design - Processing Practicals on Injection Moulding & Blow Molding.

TESTING

3.PLASTICS MATERIAL IDENTIFICATION AND SELECTION CRITERIA FOR END PRODUCTS & TESTING(Code: T-1)

Period/Duration: 24.09.2009 to 25.09.2009 / Two Days Course Fee : Rs.3,000/- Target : 20 Course Co-ordinator : Mr. N MOHAN KUMAR

Contents :

Introduction to Plastics Materials and Applications, Identification of Plastics by simple Method, Introduction to Plastics Processing, Plastics Selection Criteria for end use Applications, Plastics Charecterisation and Testing Techniques.

4. POLYMER ALLOYS & BLENDS AND COMPOSITES (Code:T-2)

Period/Duration: 14.10.2009 & 15.10.2009 / Two Days Course Fee: Rs.3,000/- Target : 20 Course Co-ordinator : Dr. S SOUNDARARAJAN

Contents:

Polymer Alloys & Blends (PAB'S) – Composites – Plastics raw materials – Thermo Plastics & Thermoset Plastics, Compatibilizer for PAB'S, Fibre Reinforcements & Coupling agents for Composites. Properties Advantages of PAB'S & Composites, Applications. Compounding – Testing & Characterization – Processing of PAB'S / Composites – Commercial Trade names of PAB'S / Composites.

5.COMPOUNDING, MANUFACTURING AND TESTING OF RPVC PIPE & HDPE PIPE (code :T-3)

Period/Duration: 16.12.2009 & 17.12.2009 / Two Days Course Fee : Rs.3,000/- Target : 20 Co-ordinator : Mr. D . BASKARAN

Contents:

Plastics Materials & its Applications - Plastics Processing Methods – Additives and Compounding for Pipes – Testing & Quality Control of Pipes - Practicals on Testing of PVC and HDPE Pipes.

6.TESTING AND QUALITY CONTROL OF PLASTIC MATERIALS & PRODUCTS. (Code: T-4)

Period/Duration: 11.02.2010 & 12.02.2010 / Two Days Course Fee : Rs.3,000/- Target : 25 Course Co-ordinator : Dr. S SOUNDARARAJAN

Contents:

Plastics Materials and its Application – Identification of Plastics – Selection Criteria for Specific end use – Testing & Quality control of Plastics Materials & Products – Practical Demo on Plastics Testing Equipments

TOOL ROOM

7.WORKSHOP ON “CNC MACHINES FOR TOOL ROOM APPLICATIONS” (Code:TR-1)

Period/Duration: 08.07.2009 & 09.07.2009 / Two Day Course Fee : Rs.3,000/- Target : 20 Course Co-ordinator : Mr. R JOSEPH BENSINGH

Contents :

Introduction about all CNC Machines - Programming and Operations of CNC Machines Like CNC Milling, CNC Lath , CNC EDM, CNC Wire Cut Machines and Co-ordinate Measuring Machines.

8.MODERN MOULD MANUFACTURING SOLUTIONS TECHNIQUES” (Code:TR-2)

Period/Duration: 02.12.2009 & 03.12.2009 / Two Day Course Fee: Rs.3,000/- Target : 25 Course Co-ordinator : Mr. R . JOSEPH BENSINGH

Contents :

Technology Development in CNC Machines Tool, Cutting Tool, and CAD / CAM / CAE.

DESIGN COURSES

9.INJECTION MOULD DESIGN (Code:D1)

Period/Duration:05.08.2009 & 06.08.2009 / Two Days Course Fee:Rs.3,000/- Target :20 Course Co - ordinator : S.LAKSHMANAN

Contents :

Plastics Conversion Process – Plastics Materials – Mould Making Technology – Injection Mould Design (Feed System – Cooling System – Ejection and Clamping System).

10.PLASTICS PRODUCT AND MOULD DESIGN (Code:D2)

Period/Duration: 11.11.2009 & 12.11.2009 / Two Days Course Fee : Rs.3,000/- Target : 20 Co-ordinator : Mr. N . DURAI

Contents :

Prototyping Methods – Reverse Engineering – Plastics Materials – Selection of Moulding Materials – Plastic Conversion Process – Mould Making Techniques Selection of Mould Materials and Heat Treatment – Principle of Product design and Injection Mould design.

11.ADVANCED INJECTION MOULD DESIGN (Code:D3)

Period/Duration: 06.01.2010 / One Day Course Fee : Rs.1,500/- Target : 20 Co-ordinator : Mr. N .DURAI

Contents :

Mould design for threaded components – Gas assisted injection mould design – Hot Runner Mould – Rapid Prototyping Techniques and Reverse Engineering – Mould Flow Analysis.

12.INJECTION MOULD DESIGN (Code:D4)

Period/Duration:03.03.2010 & 04.03.2010 / Two Days Course Fee:Rs.3,000/- Target :20 Course Co - ordinator : S.LAKSHMANAN

Contents :

Plastics Conversion Process – Plastics Materials – Mould Making Technology – Injection Mould Design (Feed System – Cooling System – Ejection and Clamping System).

For whom / beneficiary

All the above courses are for Supervisors / Managers / Proprietors from Plastics & Allied Industries.

COMPUTER BASED TRAINING (CBT)

(Full Time/Part Time)

CIPET

Inline with the changing and challenging industrial scenario, CIPET constantly updates its training methodology with the inclusion of necessary software packages which are user friendly and quick learning tools.

CIPET has recently procured a CBT – software package which includes various self learning modules on the subject such as injection moulding, optimizing process parameters for achieving quality, enhancing productivity, trouble shooting, hot runner moulding solutions, extrusion blow moulding, sheet extrusion, compounding of plastics using twin screw extrusion etc. The CBT programme modules, fee structure, duration are given below:

1. Injection moulding Techniques Level – I
Duration: Two Days Fees: 2000/-*
2. Injection moulding Techniques Level –II
Duration: Two Days Fees: 2000/-*
3. Hot Runner Molding Solutions
Duration: One Day Fees: 1000/-*
4. Trouble Shooting in Injection Moulding
Duration: Two Days Fees: 2000/-*
5. Plastics Materials
Duration: Two Days Fees: 2000/-*
6. Extrusion Technology with Special Emphasis on Sheet Extrusion. Duration: Three Days Fees: 3000/-*
7. Compounding of Plastics using Twin Screw Extrusion
Duration: Two Days Fees: 2000/-*
8. Extrusion Blow Moulding
Duration: Two Days Fees: 2000/-*
9. Programming for CNC Milling (Code : CBT/CNC/M1)
Duration : 40 hrs Fees:2000/-**
10. Programming for CNC Turning (Code : CBT/CNC/L1)
Duration : 40 hrs Fees:2000/-**
11. Advanced CNC Programming (Code : CBT/CNC/MT 1)
Duration : 40 hrs Fees:3000/-**

Fees Concession,	
** 25%	- Group of 05 Candidates from an Organisation / Institution
** 20%	- Students / CIPET Alumini
* 50%	- Students / CIPET Alumini
Course Commencement : Every Monday	

(Full Time/Part Time)

1. PROGRAMMING & MACHINING CASE STUDIES ON CNC EDM,CNC WIRE CUT, CNC MILLING & CNC LATHE
Duration: 160 Hrs Fee:Rs.22,000/-
2. PROGRAMMING USING CAD & MACHINING CASE STUDIES ON CNC EDM & CNC WIRE CUT
Duration: 100 Hrs. Fee:Rs.15,000/-
3. PROGRAMMING & MACHINING CASE STUDIES ON CNC MILLING & LATHE
Duration: 64 Hrs. Fee:Rs.10,000/-
4. PROGRAMMING USING CAD & MACHINING CASE STUDIES ON CNC WIRE CUT
Duration: 40 Hrs. Fee:Rs.10,000/-
5. PROGRAMMING & MACHINING CASE STUDIES ON CNC EDM
Duration: 40 Hrs. Fee:Rs.6,000/-
6. PROGRAMMING & MACHINING CASE STUDIES ON CNC MILLING
Duration: 40 Hrs. Fee:Rs.6,000/-
7. PROGRAMMING & MACHINING CASE STUDIES ON CNC LATHE
Duration: 40 Hrs. Fee:Rs.6,000/-
8. FAMILIARIZATION AND OPERATION PRACTICES ON CMM
Duration: 40 Hrs. Fee: Rs.6,000/-

Eligibility : ITI/Diploma/B.E

Course Commencement : First & Third week of every month

Special discount (10%) for group of candidates more than 10 in a batch

Title of the Course, Duration & Fee	Comment -CIPET Dates
1.Plastics Product and Mould Design – Part time Duration: 6 Months Fee:Rs.20,000/- Target : 15 Pre - requisite: Knowledge in AutoCAD	11.05.09 & 07.09.09
2. AutoCAD with Mould Design Practice - Full/ Part Time Duration: 120 Hrs (effective) / (40 days) Fee:Rs.3,000/- Target: 15 Pre -requisite: Knowledge in Engineering Drawing.	15.06.09 10.08.09 02.11.09 22.02.10

Eligibility:

Design Engineers, Mould & Tool Designers / Tool Makers / Production Supervisors and also Candidates with Degree / Diploma in Mech./Prodn./Chem./Tool Engg. / ITI aspiring to become Design / Tool / CAD Engineers. Final year students can also join.

Mode of selection :
First Come First Served Basis

Central Institute of Plastics Engineering & Technology (CIPET) is a premier National Institution devoted to **Academic, Technology Support & Research (ATR)** for the Plastics & Allied industries, in India. First CIPET campus was established by Government of India in 1968 at Chennai and subsequently 14 **CIPET Campuses** have been established by Government of India in the country. Today 15 CIPET Institutes – Ahmedabad, Amritsar, Aurangabad, Bhopal, Bhubaneswar, Chennai, Guwahati, Hyderabad, Hajipur, Haldia, Jaipur, Imphal, Lucknow, Mysore and Panipat are contributing through ATR services to the industries in India and abroad. All the centres have adequate infrastructural facilities in the areas of Design, CAD/CAM/CAE, Tooling & Mould Manufacturing, Plastics Processing, Testing and Quality Control.

The courses are designed to produce technically trained manpower for ready absorption in plastics industry. The infrastructure facilities in terms of machinery and equipment are continuously upgraded / modernized to match with the technological development and needs of the industry globally. To keep the industries abreast with the new technological developments and update the skill levels of the personnel working in the industry, short-term programmes, tailor-made programmes, modular training programmes, technical seminars are conducted on Design, Tooling, Plastics Processing, Plastics Testing and Quality Assurance.

CAM & CNC COURSES

DESIGN COURSES