

PATRON

Mr.A.K.Joshi (Director & Head, CIPET, Korba)

TECHNICAL COMMITTEE

Mr. Diwesh B Meshram

Mr. Akshay Khatod

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CO-ORDINATOR

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ABOUT CIPET, KORBA

Central Institute of Petrochemicals Engineering & Technology (CIPET) (formerly known as Central Institute of Plastics Engineering & Technology (CIPET)) was established in 1968 by Government of India with the assistance of United Nations Development Programme (UNDP) at Chennai. The main objective of setting up of this specialized institute was to develop manpower in different disciplines of Plastics Engineering & Technology as no similar institute was in existence in the country. Today CIPET is a premier Academic institution for higher & technical education under the Ministry of Chemicals & Fertilizers, Govt. of India fully devoted in all the domains of plastics viz:- Design, CAD/CAM/CAE, Tooling & Mould Manufacturing, Production Engineering, Testing and Quality Assurance CIPET operates on hub & spokes model with 42 locations - 8 (IPT), 23 (CSTS), 3 (SARP), 3 (Sub-Centre), 5 (In Pipe Line). A unit of CIPET has been established in the city of Korba situated at Power City of Chhattisgarh. It

provides academic and employment-oriented skill development training and technical support service to plastics and allied industries.

OBJECTIVE OF TRAINING

This FDP aims to provide knowledge of product development of Plastics Products and Mould design with depth knowledge from production aspects. The FDP will give exposure to the participants about applications of Plastics Products in various day to day applications ranging from domestics, medical, industrial, aircraft, automobile etc. The programme shall also enable the participants to understand and practice design and manufacturing process. The speakers will also highlight the research being carried out in these areas and to make the participants familiar with the latest tools and design techniques. This Programme will include lectures delivered by the eminent experts and researchers with the practical lab session.

REGISTRATION FEES

There is **NO REGISTRATION FEES**. Maximum 200 participants may be allowed to attend online FDP/PDP. The applicants are requested to get themselves registered through the following link:

<https://atalacademy.aicte-india.org/signup>

<http://www.aicte-india.org/atal>

(Registration will be done ONLY through the above link.

AICTE Training and Learning (ATAL) Academy



Online Faculty Development Programme

On

“Plastics Product & Mould Design”

(July 20-24, 2021)

WORKSHOP ID : 1283

Organized by



Department of Mechanical Engineering
**Central Institute of Petrochemicals
Engineering and Technology**

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RESOURCE PERSON

Dr. A M Kuthe, VNIT Nagpur
Prof. Ismail Akbani, Symbiosys, Pune
Mr. Sridhar Mahadevan NID, Ahmedabad
Mr. A K Joshi, CIPET
Dr Dinesh Singh G Thakur, DIAT-Pune
Ms. Anupama Mishra
Mr K A Rajesh CIPET
Mr. Manoj Kumar Rajput, CIPET
Mr Kailash Pradhan
Mr Devendra Nagpure, CIPET
Mr Ajay Sharma, PROLIM
Mr Bala, Ex-CIPETian
Mr Rabindra Kumar (Ex-CIPETian), Mould Masters
Mr. Diwesh Meshram, CIPET
Mr. Akshay Khatod, CIPET

IMPORTANT DATES

*Last date for receiving application: July 15, 2021

*Intimation of selection by Email: July 19, 2021



COURSE HIGHLIGHTS

- Design for Manufacturing and Assembly (DFMA)
- Consumer Centric Design Approach
- Fundamentals of Plastics Product Design
- Design Thinking
- Methodical Approach for Mould Design
- Applications of Design Software
- Application based Material Selection
- Identification & Testing of Plastics
- Mouldwizard Overview and case study
- Exposure on Design Software
- Mould – Flow Analysis
- Plastics in Aerospace Applications
- New Technologies in Injection Mould
- Hot Runner Mould

ABOUT DEPARTMENT

The Department of Mechanical Engineering came in existence since 2019. The department is playing a vital role to create skilled and technically trained manpower in the field of Manufacturing Technology by Long Term Courses i.e Diploma in Plastics technology (DPT) and Diploma in Plastic Mould Technology (DPMT). These diploma programs combine hands-on laboratory experience along with a strong emphasis on handling the machineries/ equipment. Due to CIPET's close industry collaborations, students are exposed to all modern plastics manufacturing, design and testing technologies.

Highlights about CIPET:Korba

Testing Facilities

Facility for Testing of various plastic products as per the IS/ASTM standards.

Inspection Services

CIPET is an apex body having NBCB accreditation for Third Party Inspection Services

Tool Room

Plastics products takes the final shape in a mould. Molds for Injection, Blow, Extrusion and others ancillary items are manufactured at CIPET.

CAD/CAM/CAE

CIPET has facilities for different 3D modelling Software which are required by faculty and students during their Project Works.

Rapid Prototyping

3D Printing is a latest trend in the industry. 3D printed article can be developed here which may be required for project purposes.

Plastics Processing

Its the process of converting the plastics raw material into semi-finished or finished products. This is the section where the plastics melts takes its final shape.

Plastic Recycling and Waste Management

The biggest global issue dealing in plastics is managing the plastics waste. CIPET has facility to recycle plastics wastes.

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PROGRAM SCHEDULE

July 20th 2021 (Tuesday)

10:00-12:00	12:00-12:15	12:15-14:15	14:15-15:00	15:00-17:00
Session-I	<i>Break</i>	Session-II	<i>Lunch Break</i>	Session-III
-Inaugural Ceremony -Role of CIPET in Plastics for Industry, Academicians & Research Scholars - Fundamentals of Plastics Product Design		Design for Manufacturing and Assembly (DFMA)		Ansys in Structural Plastics Design
Mr. Manoj Rajput, CIPET		Dr. A M Kuthe, Visvesvaraya National Institute of Technology, Nagpur		Mr Kailash Jagtap, ARK Infosolutions Pvt. Ltd.

July 21st 2021 (Wednesday)

10:00-12:00	12:00-12:15	12:15-14:15	14:15-15:00	15:00-17:00
Session-IV	<i>Break</i>	Session-V	<i>Lunch Break</i>	Session-VI
Design Thinking		Methodical approach for Mould Design		Wellness & Mind Training
Prof. Ismail Ikbani, Symbiosis Centre for Entrepreneurship and Innovation Head, Innovation & Linkage,SCEI		Mr. A K Joshi, CIPET		Ms. Anupama Mishra International NLP Trainer Yoga Coach Pune, Maharashtra

July 22nd 2021 (Thursday)

10:00-12:00	12:00-12:15	12:15-14:15	14:15-15:00	15:00-17:00
Session-VII	<i>Break</i>	Session-VIII	<i>Lunch Break</i>	Session-IX
Advance Injection Mould Design		Application based Material Selection (Mould Materials & Plastics Materials)		Identification & Testing of Plastics Material
Mr. Kailash Pradhan SR. Design Manager, ALPLA India Pvt.Ltd. (AMS)		Mr. Kailash Pradhan SR. Design Manager, ALPLA India Pvt.Ltd. (AMS)		Mr. K A Rajesh, CIPET

July 23rd 2021 (Friday)

10:00-12:00	12:00-12:15	12:15-14:15	14:15-15:00	15:00-17:00
Session-X	<i>Break</i>	Session-XI	<i>Lunch Break</i>	Session-XII
3D Printed MOuld & Conformal Cooling		New Technologies in Injection Mold		Mouldflow Analysis (Case Study)
Mr Jay Parekh, Shlok Solutions (Ex-CIPETian)		Rabindra Kumar, Mould Masters (Ex-CIPETian)		Mr. Bala, Ex-CIPETian

July 24th 2021 (Saturday)

10:00-12:00	12:00-12:15	12:15-14:15	14:15-15:00	15:00-17:00
Session-XIII	<i>Break</i>	Session-XIV	<i>Lunch Break</i>	Session-XV
Automated Mould Design and NX Mould Flow		Plastics in Aerospace Applications		Online Test, Feedback and Valedictory Ceremony
Mr.Ajay Sharma , PROLIM Solutions		Dr Dinesh Singh G Thakur, DIAT-Pune		Mr. Akshay Khatod, CIPET