

PLASTICS MATERIALS:

Title: Plastics Materials for End Use Applications

Duration: 16 hours

Proposed date: 28th & 29th January 25

Fee: Rs.10,000/- per person Plus GST 18 %

Co-ordinator: Mrs.T.Bharani
96293 60251

Curriculum: Studies on General Properties and applications of Different class of Advanced Plastics and Polymeric Materials.

Thermoplastic Elastomers – Polyurethane Elastomers, Polyolefin Elastomers, Styrene Elastomers, PEEK

Polymer Blends & Alloys-Properties and Applications of Parameters for Compatibility PVC - Nitrile rubber, PP. EPDM and ABS-PVC

AMC:

Title: Additive Manufacturing Techniques

Duration: 16 hours

Proposed date: 11th & 12th December 24

Fee: Rs.10,000/- per person Plus GST 18%

Co-ordinator: Mrs.S.Soundarya
75988 66883

Curriculum: Introduction to Additive Manufacturing- Classification of Additive Manufacturing processes - Advantages and limitations of Additive Manufacturing-Liquid

Based Additive Manufacturing- Solid Manufacturing- Powder Based Additive Manufacturing - Based Additive Conversion of CAD to STL- Part Orientation- Post Processing & Applications of Additive Manufacturing.

TAILOR- MADE COURSES:

CIPET :SARP - ARSTPS is organizing Tailor Made courses as per the topics /Technology based on the requirements from the industries/ MNC's.

Special Features of Training programme:

- Blend of Theory & Practical sessions
- Live Projects
- Customised curriculum for industries as per their requirements
- State-of-art facilities

For Further Details Please Contact:

The Principal Director & Head CIPET: School for Advanced Research in Petrochemicals (SARP) - ARSTPS

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Guindy, Chennai-600032.

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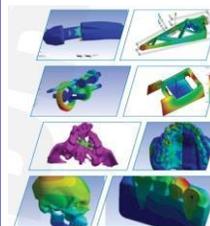
arstpscipet@gmail.com

Website: www.cipet.gov.in

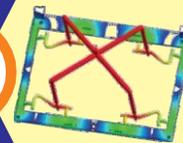
www.arstps.gov.in



SHORT TERM COURSE Annual Calendar 2024-2025



CAD/
CAM/
CAE



3D
Printing



Testing



FATIGUE

NVH



CIPET: SARP - ARSTPS Advanced Research School for Technology and Product Simulation

Department of Chemicals and Petrochemicals,
Ministry of Chemicals & Fertilizers, Govt. of India
SIDCO Industrial Estate, Guindy, Chennai -



CIPET:SARP-ARSTPSPROFILE

Central Institute of Petrochemicals Engineering & Technology (CIPET) is an ISO 9001 - 2005 QMS. ISO/IEC 17020: 2012 (NABCB) ISO/IEC17025:2017(NABL) Accredited Premier National Institution devoted to Skill Training, Technology Support, Academic & Research (STAR) activities for the last five decades. CIPET operates on hub and spokes model with its Head Office at Chennai and 45 locations spread across the length & breath of the Country.

CIPET:SARP-ARSTPS offers high-end solutions for complex & critical engineering problems and are working with a range of companies / R & D labs in the field / area of defence components, automotive, consumer products, health care, heavy engineering & telecom to solve the most challenging Research / Technical issues. The exclusive focus of this R & D Laboratory is Development of light weight technology products by Additive Manufacturing Technology. Reverse Engineering, Design, Simulation & Tooling And Testing of products.

ADVANCED TOOLING IN MOULD DEVELOPMENT

Title : Rapid Tooling

Duration: 16hrs. (2days)

Proposed dates: 13th & 14th February 25

Fee : Rs.10,000/-per person

plus GST 18%

Coordinator: Mr.S.Santhanakumar

(+91 94449 45810)

Curriculum: Introduction to rapid tooling –

Difference between rapid tooling and conventional tooling – Online course :

Development of mould inserts with

Rapid Prototyping - Classification:

Soft tooling, Hard tooling- Fabrication

processes Conformal cooling of mould

elements -Silicon moulds for Vacuum

Casting- Applications.

CERTIFICATE COURSES :

Title 1: Additive Manufacturing

(SAM 200)

Duration : 4 months (July 1st week)

Fee : Rs.48,000 per person plus

18 % GST

Title 2 : New Product Development

(SNP200)

Duration : 4 months (December 1st week)

Fee : Rs.48,000 per person plus

18 % GST

Co-ordinator: Mrs.S.Soundarya

(75988 66883)

PRODUCT VALIDATION & TESTING

Title: Mechanical Testing of Plastics

Duration: 16hours (2 days)

Proposed dates : 12th & 13th August.24

Fee: Rs.10,000/-per person

Plus GST 18 %

Co-ordinator: Mr. M.F.Antony

9944424697

Curriculum:

1. Introduction to Plastic Materials Property and Structure.
2. Introduction to Tensile, flexural, Hardness and Impact Properties of plastic Materials.
3. Fatigue and Tribological Properties of Plastic Materials.
4. NVH Testing of Plastic Products.

Laboratory Session:

1. Sample Preparation & Mechanical Testing of Plastics
2. Practical Session on Fatigue Testing Machine
3. Practical Session on Wear Testing Machine
4. Practical Session on NVH Testing Machine

PRODUCT DESIGN & DEVELOPMENT:

Title: Plastic Product development with CAD/CAE

Duration : 16hrs. (2days)

Proposed dates: 22th & 23th October 24

Fee: Rs.10,000/-per person

plus GST 18%

Coordinator : Dr.S.Rajkumar

(+91-9841262565)

Curriculum: Product Development Process- Plastic materials- Moulding process Product Design features- Wall thickness Rib, Bosses, Gusset Undercuts Draft - Holes-Tolerance Molded in threads

-Structural Considerations-Long & Short term loading - Design for Assembly - Press fits - Snap fit - Welding - Insert Moulding Post Moulding Process.

Tooling Aspects of Product Design Case studies.

ONLINE COURSES :

" 2 Weeks (10 days), @ 2 hrs. / day)

1. Fundamentals of Injection Mould Design & Analysis – 24.07.24 to 05.08.24

2. Additive Manufacturing- Fundamentals & Applications -

18.09.24 to 28.09.24

3. Mechanical Testing of Plastics – 18.11.24 to 28.11.24

4. Industrial Training Programme on Product Development: Polymeric Materials in Engineering and various Applications- 18.02.25 to 28.03.25

CIPET: SARP – ARSTPS, CHENNAI**FY: 2024-25****SHORT-TERM COURSES**

S.No	Name of the Programme	Duration	Proposed Dates	Name of the Co-ordinator / Mobile Number
1	Mechanical Testing of Plastics	16 hrs. (2 days)	12 & 13.08.2024	Mr. Marcian Frank Antony 9944424697
2	Plastic Product development with CAD/CAE	16 hrs. (2days)	22 & 23 10.2024	Dr.S.Rajkumar 9841262565
3	Additive Manufacturing Techniques	16 hours	11 & 12.12.2024	Mrs.S.Soundarya 75988 66883
4	Plastics Materials for End Use Applications	16 hours	28 & 29.01.2025	Mrs.T.Bharani 96293 60251
5	Rapid Tooling	16 hours	13 & 14.02.2025	Mr.C.Santhanakumar 94449 45810

ON-LINE COURSES

1	Fundamentals of Injection Mould Design & Analysis	2 Weeks (10 days) @ 2 hrs./Day	24.07.24 to 05.08.24	Mr.C.Santhanakumar 94449 45810
2	Additive Manufacturing- Fundamentals & Applications	2 Weeks (10 days) @ 2 hrs./Day	18.09.24 to 28.09.24	Mrs.S.Soundarya 75988 66883
3	Mechanical Testing of Plastics	2 Weeks (10 days) @ 2 hrs./Day	18.11.24 to 28.11.24	Mr. Marcian Frank Antony 9944424697
4	Industrial Training Programme on Product Development: Polymeric Materials in Engineering and various & Applications	2 Weeks (10 days) @ 2 hrs./Day	18.02.25 to 28.03.25	Dr.S.Rajkumar 9841262565

CERTIFICATE COURSES

1	Additive Manufacturing (SAM 200)	4 months	1st week of July	Mrs.S.Soundarya 75988 66883
2	New Product Development (SNP 200)	4 months	1st week of December	Mrs.S.Soundarya 75988 66883