www.amtecedu.org

Skill India
कौशल भारत - कुशल भारत

Approved Training Partner of NSDC

N·S·D·C National Skill Development Corporation
Transforming the skill landscape

SPEED TO MARKET

AMTEC COURSES

INDUSTRY VERTICALS - COURSES OFFERED

1A Solution partner PLM SIEMENS
Service Provider : CAD CAM Galaxy
TOOL, MOULD, PRODUCT DESIGN

1B AUTODESK | AUTODESK AUTOCAD
AUTOCAD

1C AUTODESK | AUTODESK FUSION 360
FUSION 360

1E AUTODESK | AUTODESK 3ds Max
3ds MAX

2A www.amtecedu.org
3D PRINTING - BASIC

2B 3D SYSTEMS
3D PRINTING - ADVANCE

3 ZEISS
REVERSE ENGINEERING 3D SCANNING

4 Research • Recreate • Revitalise F.I.P.S.
PLASTIC PACKAGING

5 SSA BUSINESS SOLUTIONS
INDUSTRIAL MANAGEMENT PROGRAMMES

7 HOT SOLUTION YUDO HOT RUNNER SYSTEM
HOT RUNNER SYSTEMS

GET IN TOUCH

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VISION

To develop Professionals, Leaders and Entrepreneurs who can contribute to empower growth of Indian Plastics Industry by providing education, training, technology services and sustainability practices.

MISSION

To position AMTEC as Center of Excellence by Imparting world class training to help plastics companies close skill gaps and be globally competitive.

To develop Industry-ready & employable human resources through finishing schools, technology Demo Center and global knowledge partners.

To inculcate and adapt research, incubation, innovation and entrepreneurship practices to make India self –reliant & global sourcing hub for plastic products.

ABOUT US

The All India Plastics Manufacturers' Association (AIPMA) is the oldest (78-year-old) and the largest industry association in the country having more than 22,000 industry members across the country. AIPMA is providing knowledge based services to the industry and students on various latest technologies.

AIPMA's Arvind Mehta Technology & Entrepreneurship Centre is promoting high quality knowledge and industrial services in the areas of Reverse Engineering, Tool, Mould, Product Design, 3D Printing, Plastics Packaging, Hot Runner Systems and Management Programmes. AIPMA's AMTEC Finishing School in Plastic Production & Engineering is making students Industry Ready.

KEY HIGHLIGHTS

- **Bridge the gap between the academia and the industry.**
- Motto - 'Making students Industry Ready.'
- Enabling the trainees to serve the manufacturing industry right from day one.
- Industries can depute their new recruits to undergo these courses, thereby reducing the orientation time to the minimum.
- Industries recruit students for various functions including Design, Planning, Production, Quality, Sales & Marketing, Service & Support, etc.,
- Approved training partner of Skill India, NSDC.

PLASTICS INDUSTRY - A SUNRISE SECTOR

GROWTH PARAMETERS	CURRENT STATUS 2023	EXPECTED BY 2027
Sector Turnover per annum	Rs. 5 Lakhs crore	Rs. 10 Lakh crore
Number of Manufacturing Units	50,000	100,000
Per capita consumption of plastics	14 kgs	28 kgs
Number of people employed	50 Lakhs	1 Crore
Exports	Rs. 50,000 Crores	Rs. 1 Lakh Crore

COURSES OFFERED

KNOWLEDGE PARTNER

Solution partner PLM | SIEMENS

Service Provider : CAD CAM Galaxy

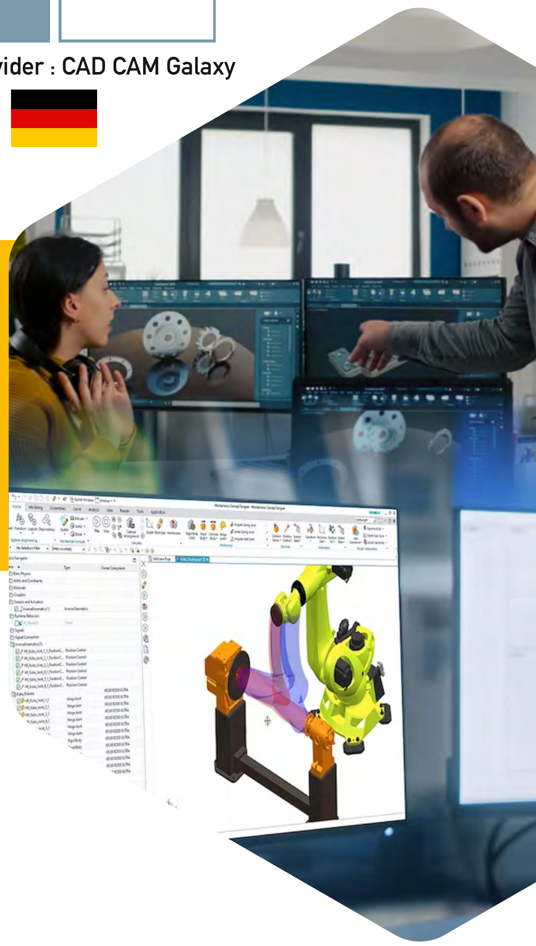
COURSE NO. 1A

TOOL, MOULD, PRODUCT DESIGN

75 HOURS COURSE

~~Rs.15,000/-~~ **Rs.11,250/-** GST applicable

- Weekdays and Weekend Batches available
- Flexible Timings
- Hybrid mode of Teaching



NX CAD SOFTWARE

Introduction to Nx interface knowing gateway mode and accessing different application using MDE

SYLLABUS

1. Introduction on UG NX
2. 2D SKETCH
3. EXTRUDE
4. REVOLVE
5. DESIGN FEATURE
6. EDGE BLEND & SHELL
7. CHAMFER & DATUM PLANES, TRIM BODY
8. PATTERN FEATURE
9. PROJECT & TUBE
10. WRAP
11. HELIX AND TEXT
12. DERIVED CURVE
13. OFFSET SURFACE, TRIMMED SHEET, THICKEN
14. RULED, THROUGH CURVE, THROUGH CURVE MESH
15. SWEEP ALONG GUIDE, VARIATIONAL SWEEP, SWEPT
16. CORE CAVITY- EXTRACTION (PUNCH AND CAVITY)
17. DRAFT BODY & DIVIDE FACE, PATCH.
18. SYNCHRONISE MODELING
19. ASSEMBLY
20. DRAFTING
21. SCALE BODY, VOLUME, WEIGHT, CALCULATION

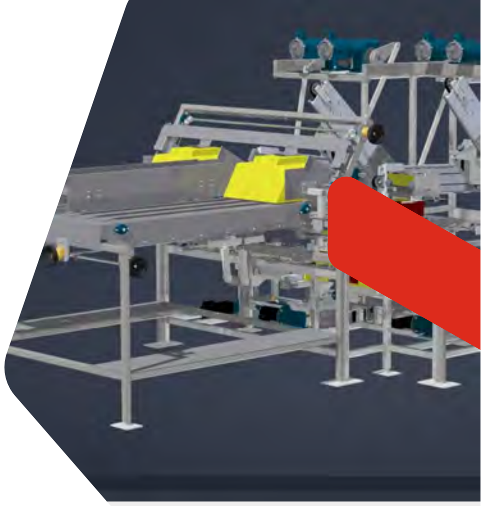
Get Certified By

COURSES OFFERED

AUTODESK

KNOWLEDGE PARTNER

AUTODESK



OBJECTIVES

- Learn basic technical design techniques
- Become familiar with engineering design tools such as AutoCAD & MS Project
- Use your new knowledge towards your lab and independent design project

SYLLABUS

COURSE NO. **1B**

AUTODESK® AUTOCAD®

80 HOURS COURSE

RS. ~~15,000/-~~ **RS. 10,000/-**
Including GST

AutoCAD

- Drawing Basics
- 2D Drafting
- Orthographic Projections
- Section
- Isometric

COURSE NO. **1C**

AUTODESK® FUSION 360™

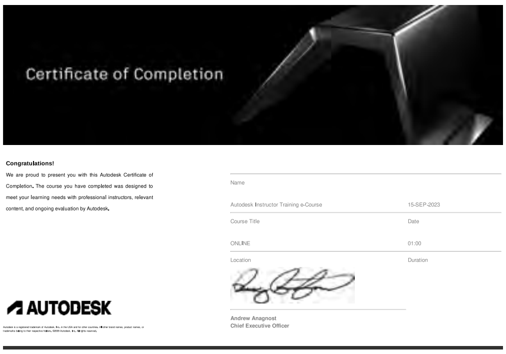
120 HOURS COURSE

RS. 15,000/-
GST Applicable

Fusion 360

- Introduction
- Solid Modeling
- Assembly
- Drafting
- Advance Surfacing
- Sheet Metal Designing

Get Certified By



AIPMA's AMTEC ARVIND MEHTA TECHNOLOGY AND ENTREPRENEURSHIP CENTRE MUMBAI

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COURSES OFFERED

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3D SYSTEMS

COURSE NO. **2A** — **3D PRINTING - BASIC**

COURSE NO. **2B** — **3D PRINTING - ADVANCE**

BASIC COURSE
20 HOURS COURSE

RS. 2,000/- * *GST applicable

ADVANCE COURSE
70 HOURS COURSE

RS. 15,000/- * *GST applicable

COURSE OBJECTIVES

- Distinguish between 3D printing technologies in terms of process, materials, and applications.
- Explain the entire process of fulfilling a part request using the 3D Systems Figure 4 Standalone printer and material.
- Prepare a 3D model for successful printing including orientation and creating support structures.
- Print a part with the Figure 4 Standalone printer that meets required specifications.
- Describe regular and preventative maintenance on the Figure 4 Standalone 3D printer.
- Perform post-processing and finishing of 3D printed parts.
- Maintain up to date knowledge of the 3D printing industry through research
- Industries Served : Automotive, Consumer Electronics, Home Appliances, Toys, FMCG Packaging, Aerospace & Defence, Jewellery Design

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SYLLABUS

3D PRINTING - BASIC

1. Introduction to traditional manufacturing
2. History of 3D printing
3. Detailed overview of 7 Types of 3D Printing
4. Demonstration of FFF Workflow
5. Hands on Software detailed guide
6. Software Training and Practice
7. Discussion on Servicing of FFF Printers
8. Discussion on Application of FFF Technologies in the Industry
9. Introduction to Figure 4 Technology
10. Demonstration of Figure 4 Technology
11. Practice
12. Exam

3D PRINTING - ADVANCE

1. Introduction to 3D printing
2. 3D Printing Technologies -
3. Powder Bed Fusion:- DMP (Metal)
4. Binder Jetting
5. Material Jetting
6. Extrusion (FDM)
7. Vat Polymerization Top Down (SLA)
8. Vat Polymerization Bottom Up (DLP)
9. Material Properties
10. Figure 4 Standalone Printer
11. Designing for 3D Printing
12. 3D Sprint Demonstration
13. Mid Term Quiz
14. Secondary Processes
15. Maintenance and Troubleshooting
16. File Prep Lab
17. Print Lab
18. Project Reports and Final Quiz

COURSES OFFERED

KNOWLEDGE PARTNER

ZEISS

Roughness Tester

COURSE NO. 3

REVERSE ENGINEERING

45 HOURS COURSE

RS. 8,000/-

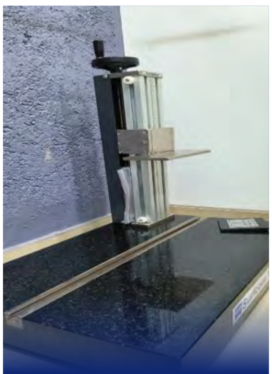
GST applicable

3D SCANNNING

One of the industry challenges is to generate 3D CAD models in house for various applications. It could be legacy parts with no engineering drawings or 3D print a spare part or develop tooling on the shop floor. Learn how to tackle similar challenges from our experts.

SYLLABUS

- Introduction to metrology
- Consequences of incorrect measurements
- Factors influencing the measuring results
- Preparation of accurate measurements
- Production processes
- Measuring-Testing-Gaging
- Intro. To Contact and Non-Contact measuring techniques
- Intro. of 3D scanning technology
- Working Principles of 3d scanning technology
- Intro of GOM scan 1
- Introduction to the system.
- General operation and demonstration of the software
- Calibration of system.
- Preparing the measuring object.
- Scanning and measuring strategies.
- Measuring top and bottom surface.
- Automated rotation Table measurement.
- Measuring without reference points.
- Measuring small object.
- Project templates.
- Intro of Software
- Zeiss Quality suit
- Revision session
- Introduction to the Software.
- First look at the software.
- Creating the first project.
- Creating the first inspection.
- General inspection concept.
- How to derive Nominal values.
- How to drive actual values.
- Inspecting elements.
- Exercise on sample Inspection.
- Tolerances.
- Parametric inspection of the software.
- Main Alignment.
- More complex inspection.
- Reporting.
- Packages.
- Special Application: Stage project.
- Special Application: Inspecting Actual data only.



Column and Base

GOM Scanner with Tripod

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ZEISS

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AIPMA's AMTEC INTRODUCING

Product Design Certification Course

Become a Qualified Product Designer

Duration : 6 Months | Assured Placement

Worth ₹15,000
NX CAD
Solution partner PLM SIEMENS
Service Provider : CAD CAM Galaxy

OR

Worth ₹15,000
AUTODESK® FUSION 360™

OR

Worth ₹15,000
AUTODESK® AUTOCAD®

~~₹55,000~~

₹44,900/-

(Including GST)

Worth ₹15,000
ZEISS 3D SCANNING

Worth ₹19,000
3D SYSTEMS
3D PRINTING
Advance & Basic

OPTION A : NX CAD, AUTOCAD, 3D PRINTING & 3D SCANNING : 290 HRS

OPTION B : FUSION 360, AUTOCAD, 3D PRINTING & 3D SCANNING : 335 HRS

OPTION C : NX CAD, FUSION 360, 3D PRINTING & 3D SCANNING : 330 HRS

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NSDC SKILL INDIA, AIPMA'S AMTEC, ZEISS, 3D SYSTEMS, AUTODESK & SIEMENS

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Bank Loan & EMI Options Available

AIPMA's AMTEC JOURNEY & ACHIEVMENTS

Year 2021 to 2024
Pass out Students: 671











Success is where preparation & opportunity meet