

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

AMTEC COURSES

INDUSTRY VERTICALS - 15 COURSES OFFERED

1A



Service Provider : CAD CAM Galaxy

GERMANY

NX CAD (TOOL, MOULD, PRODUCT DESIGN)

1B



USA

AUTOCAD

1C



USA

FUSION 360

1E



USA

3ds MAX

2A



www.amtecedu.org

3D PRINTING - BASIC

2B



USA

3D PRINTING - ADVANCE

3



GERMANY

**REVERSE ENGINEERING
3D SCANNING**

4



PLASTIC PACKAGING

5



**INDUSTRIAL MANAGEMENT
PROGRAMMES**

7



SOUTH KOREA

HOT RUNNER SYSTEMS

8



INDIA

RECYCLING

9



INDIA

SUSTAINABILITY FOR PLASTICS

10



INDIA

AUTOMATION & ROBOTICS

11



INDIA

CAM

12



Service Provider : CAD CAM Galaxy

USA

SOLID WORKS



Mr. ANIKET SHINDE : +9183693 46427
a.shinde@amtecedu.org

Mr. JOHN STALIN : +91 97303 36779
stalin@amtecedu.org

Ms. TANISHA SHETTY : +91 72089 96158
tanisha@amtecedu.org



A -53, Street No.1, MIDC Marol,
Andheri (East), Mumbai - 400 093, INDIA.



contact@amtecedu.org



@AIPMA's AMTEC



@aipmas_amtec



@AIPMA'sAMTEC

www.amtecedu.org

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

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 (79-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 2025	EXPECTED BY 2030
Sector Turnover per annum	Rs. 7 Lakh Crores	Rs. 10 Lakh Crores
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

COURSE NO.

1A

TOOL, MOULD, PRODUCT DESIGN

KNOWLEDGE PARTNER

Solution
partner

PLM

SIEMENS

Service Provider : CAD CAM Galaxy



GERMANY



75 HOURS COURSE

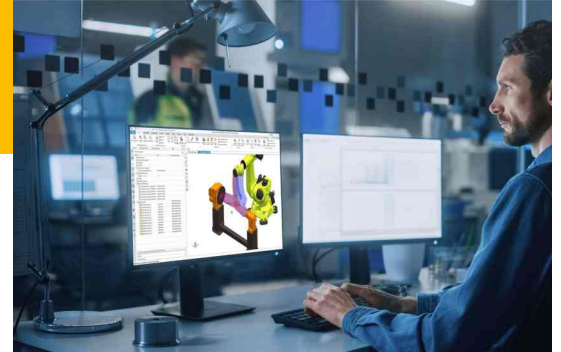
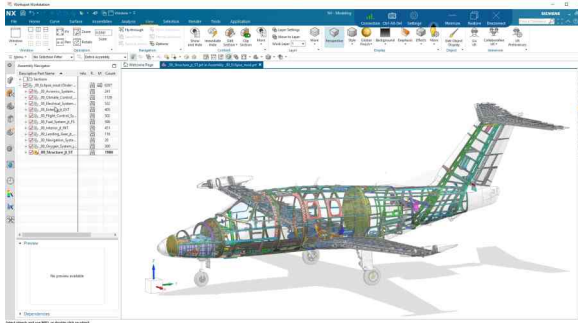
~~Rs.15,000/-~~ Rs.11,250/-

GST applicable

- Weekdays and Weekend Batches available
- Flexible Timings

NX CAD SOFTWARE

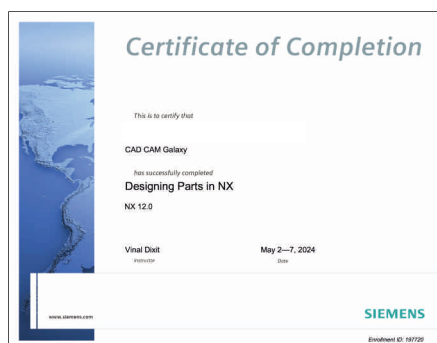
Introduction to Nx interface knowing gateway mode and accessing different application using MDE.



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

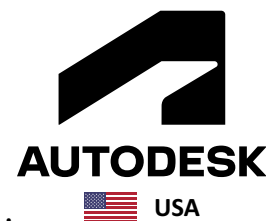


COURSES OFFERED

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

KNOWLEDGE PARTNER



COURSE NO. 1B AUTOCAD

SYLLABUS



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 FUSION 360

SYLLABUS



AUTODESK®
FUSION 360™

120 HOURS COURSE

RS. 15,000/-
GST Applicable

Fusion 360

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



Get Certified By



COURSES OFFERED

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

KNOWLEDGE PARTNER



3D SYSTEMS



USA



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

Get Certified By



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

**45 HOURS COURSE**

~~Rs.15,000/-~~ **RS. 8,000/-**
GST applicable

3D SCANNING



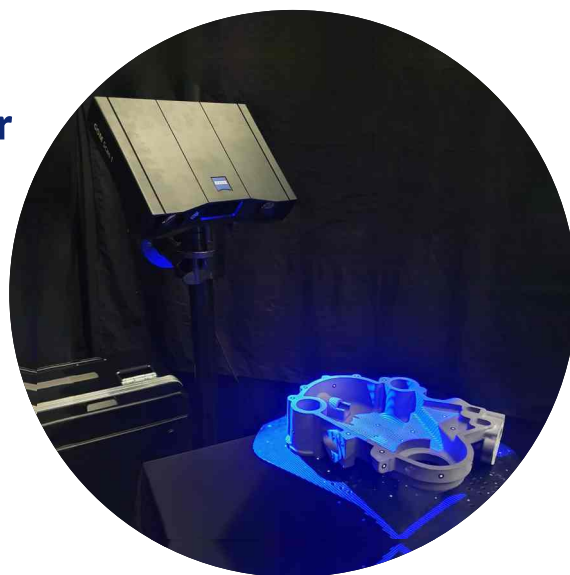
GERMANY

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.

GOM Scanner with Tripod

**Get Certified By**

COURSES OFFERED

KNOWLEDGE PARTNER

HOT SOLUTION

YUDO

HOT RUNNER SYSTEM



SOUTH KOREA

COURSE NO.

7

HOT RUNNER SYSTEM



70 HOURS COURSE

RS. 12,500/- PLUS GST

AIPMA's AMTEC

CERTIFIED COURSE IN HOT RUNNER SYSTEM

"Master Hot Runner Technology: Optimize Performance, Enhance Efficiency, and Elevate Your Molding Expertise!"



Special Benefit for Students & Industry Professional

1. Specialized Knowledge in Hot Runner System

2. Hands on Experience on Machine at our Centre to improve Practical Skills

3. Quality Control Improvement knowledge that Emphasizes the Importance of Temperature Control and its Impact on Product Quality

4. Career Advancement Access To Specialized Roles Such As Process Engineer, or Technical Sales Engineer, With Competitive Salaries

The **HOT RUNNER** System is a high-tech solution in the plastic injection molding process. It uses heated components to keep the plastic material in a molten state as it flows through the system, ensuring precise control of the injection process and reducing waste. By eliminating the need for solid runners (the channels that typically carry the plastic to the mold cavities), it allows for more efficient use of raw material, reducing costs and material waste.

- Introduction to Yudo
- Evolution of Hot Runner systems
- Introduction to Plastics Hot Runner System for Injection Molds
- Functional & assembly Aspect in Hot Runner Systems
- Advantages of Hot Runner systems & Defects, Cause, Remedies
- Application of Hot Runner System
- New Age Plastics and its HRS system
- Yudo Advanced Product for Automotive & Engg Applications
- Yu drive systems
- Influence of ISO technology
- 2K Molding solutions
- CAE Role in HRS Feed system Selection Maintenance of The Hot Runner system
- Learning Case Studies and Examples. Dos and DON'TS With The HRS



WHY CHOOSE US??

- ▶ National Skill Development Corporation - Skill India Certification
- ▶ Approved training partner of Skill India, NSDC.

- ▶ Economical Fees on Courses Offered
- ▶ Fully Air Conditioned Campus with Modern Day Amenities

- ▶ Industry Placements Assistance



77 HOURS COURSE

RS. 15,000/- GST Applicable



INDIA

AIPMA's AMTEC

Introducing

Waste Management, Sorting Automation & Recycling Course



Half Knowledge

Plastic is Banned,
Cannot be recycled

Education



**Plastic Products below 50
Micron thickness are banned,
all thermoplastic materials
can be recycled.**

This course aims to provide students with comprehensive knowledge and skills necessary to enter the waste management and recycling industry as trainees. Focused on the Indian context, the curriculum covers various aspects of waste management, recycling, including its importance, processes, technologies, regulations, and career opportunities.

Through a combination of theoretical learning, case studies, practical exercises, and industry exposure, students will develop a strong foundation to kickstart their careers in the sector.

1. Understanding Waste Management and Recycling Industry
2. Waste Management Basics
3. Waste Management & Recycling Processes and Technologies
4. Environmental and Regulatory Aspects
5. Business and Entrepreneurship in Recycling
6. Practical Skills and Field Visits
7. Career Development and Placement Preparation
8. Get Certified By **AIPMA's AMTEC & NSDC Skill India**



RECYCLE IT ALL, NO MATTER HOW SMALL!

COURSES OFFERED

KNOWLEDGE PARTNER

COURSE NO.

9

CERTIFICATE COURSE ON SUSTAINABILITY FOR PLASTICS



SOMAIYA
VIDYAVIHAR UNIVERSITY

K J Somaiya Institute of Management



INDIA



34 HOURS COURSE

RS. 15,000/- PLUS GST

AIPMA's AMTEC

CERTIFICATE COURSE ON SUSTAINABILITY FOR PLASTICS

“Empowering Change: Innovating Sustainability For Plastics for a Greener Future”



MODULE-WISE STRUCTURE

- Module 1: The Crisis of the Environment, Society, and Economy
- Module 2: Sustainable Development Frameworks and Goals.
- Module 3: Tools and Metrics for Sustainability Assessment
- Module 4: Sustainability Auditing and Compliance
- Module 5: Sustainable Business Practices and Reporting
- Module 6: Future Trends and Strategic Pathways for Businesses

PROGRAM OBJECTIVES

1. **Comprehensive Understanding:** Provide a holistic understanding of environmental, social, and economic sustainability challenges and solutions.
2. **Skill Development:** Equip students with practical tools, frameworks, and methodologies for sustainability assessment, auditing, and reporting.
3. **Business Integration:** Enable students to integrate sustainable, circular, and waste management practices into business operations and strategy.
4. **Future Readiness:** Prepare students to anticipate and respond to emerging sustainability trends, regulatory changes, and global best practices.
5. **Experiential Learning:** Foster hands-on learning through field visits, real-world projects, and case studies.



COURSES OFFERED

COURSE NO.

10

AUTOMATION & ROBOTICS



40 HOURS COURSE

RS. 10,000/- PLUS GST

KNOWLEDGE PARTNER

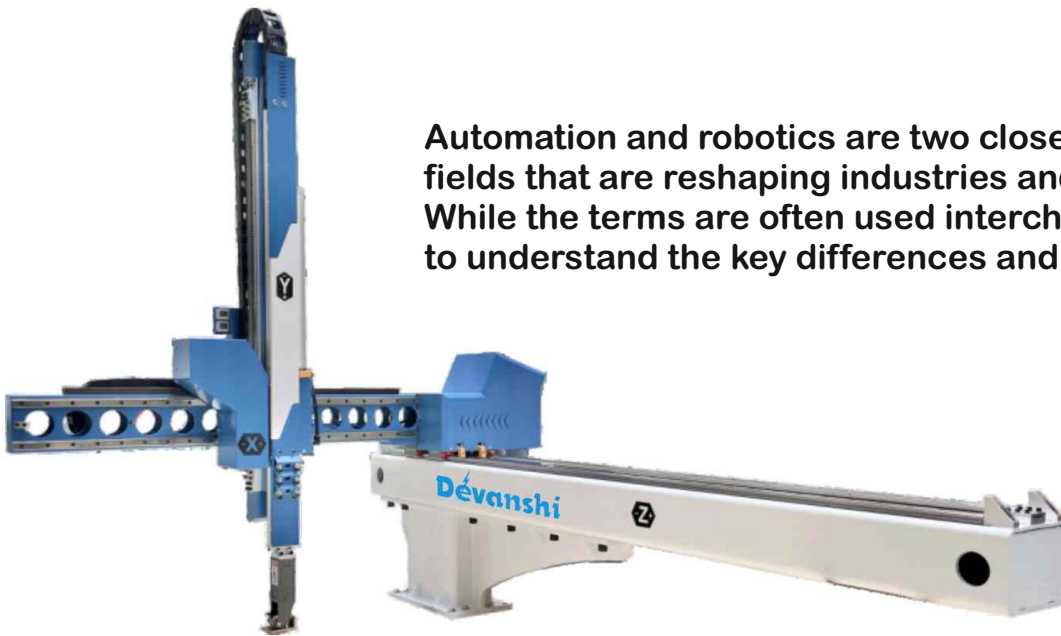
Devanshi
Electronics Pvt. Ltd.



AIPMA's AMTEC

CERTIFIED COURSE IN AUTOMATION & ROBOTICS

“Precision and Performance: Master AUTOMATION & ROBOTICS”



Automation and robotics are two closely related but distinct fields that are reshaping industries and our daily lives. While the terms are often used interchangeably, it's important to understand the key differences and how they work together.

SYLLABUS

- Basic concepts about Hydraulic, Pneumatic systems
- Basic concepts about Molding Machines
- Basic concepts about Robotic systems in Molding Machines
- Points to be considered when selecting a Robotic system
- Added features in Robotic systems for Injection Molding Machines
- Signals used in Robotic systems and Injection Molding Machines
- Basic concepts of Electronics, Electrical
- Sensors related to Robotic systems
- Introduction to PLC controllers
- Introduction to Servo and Stepper Motors
- Parts of Robotic Systems for Injection Molding Machines
- Programming of Robots for Injection Molding Machines



COURSES OFFERED

KNOWLEDGE PARTNER

COURSE NO.

11

COMPUTER - AIDED MANUFACTURING (CAM)



77 HOURS COURSE

RS. 10,000/- PLUS GST

BFW

Enabling progress ...

Service Provider : CAD CAM Galaxy



INDIA

AIPMA's AMTEC

CERTIFIED COURSE IN COMPUTER - AIDED MANUFACTURING (CAM)

"Transform Your Skills: Unlock Precision & Efficiency with CAM Training!"



CAM is often used in conjunction with CAD (Computer-Aided Design). CAD designs are translated into instructions for CAM machines to create objects directly from the design. This process can help to: Increase the efficiency of producing parts, Optimize the amount of materials used, Create components and tooling with more precise dimensions, and Reduce energy consumption.

MODULES

1. Introduction and Basics
2. CNC Programming Fundamentals
3. Practical Machining Operations
4. CAM Software Introduction
5. Material and Fixture Management
6. Intermediate CNC Programming and Measurement
7. Quality Control and Advanced Toolpaths
8. Surface Finishing and Maintenance
9. Advanced Applications and Projects
10. Final Workshop and Certification



WHY CHOOSE US??

1. Real Industrial Experience

Train on a fully functional VMC machine with a state-of-the-art controller, gaining hands-on experience directly relevant to industry requirements.

2. Authorized Siemens Training

Learn from Siemens-licensed instructors using official software and controllers to ensure the highest training standards.

3. Official Certification

Upon completion, receive an industry-recognized certificate to enhance your career prospects.

4. Job-Ready Skills

Develop practical CNC machining skills that employers demand, making you ready to step into high-growth roles.

5. Expert Guidance

Learn from experienced professionals with proven expertise in the field.

**100% PLACEMENT
SUPPORT ON COMPLETION
OF THE COURSE**

**Special Combo
OFFER!!
with NX CAD Course**



COURSES OFFERED

KNOWLEDGE PARTNER

SOLIDWORKS

COURSE NO.

12

SOLIDWORKS



USA



60 HOURS COURSE

RS. 12,000/- PLUS GST

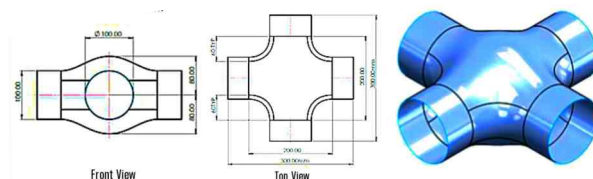
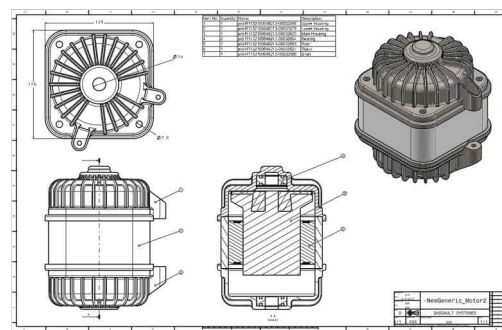
AIPMA's AMTEC SOLIDWORK

“SOLIDWORKS provides solutions for the entire product development process, from initial design to manufacturing.”

SolidWorks is a powerhouse in the world of 3D. It's widely used by engineers, designers, and manufacturers to create precise 3D models, simulate real-world performance, and manage product data throughout the development cycle.

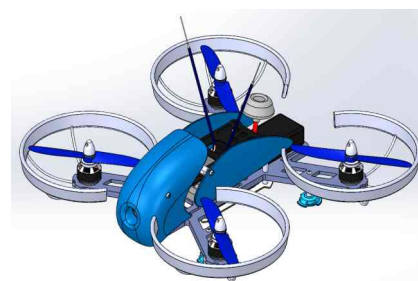
1. PART MODELING (SOLID)

- Sketching: Foundation for all modeling - creating 2D profiles
- Extrude: Turns 2D sketch into 3D solid by adding depth (most used feature)
- Revolve: Creates solid by rotating 2D sketch around a centerline
- Sweep: Creates solid by moving 2D profile along 2D or 3D path
- Loft: Creates solid by transitioning between multiple 2D profiles
- Key Pattern Options:
 - Linear Pattern: Copies features in straight directions
 - Circular Pattern: Copies features around a central axis
 - Mirror: Copies features symmetrically across a plane
- Fillet/Chamfer: Rounds or bevels sharp edges
- Reference Geometry: Using Planes and Axes is often critical for defining the pattern direction or center.



2. SURFACE MODELLING

- Extruded/Revolved Surface: Creates thin "skin" instead of solid
- Boundary Surface: Creates patch between edges with high control
- Trim Surface: Cuts away portions of a surface
- Knit Surface: Joins multiple surfaces together
- Thicken: Converts surface body into solid body

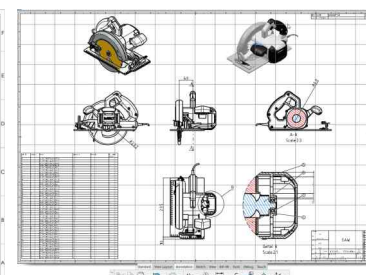
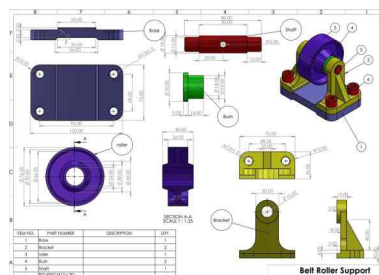


3. ASSEMBLY

- Insert Components: Placing parts into assembly file
- Mates: Defining part relationships (Coincident, Concentric, etc.)
- Exploded View: Showing assembly components separated
- Interference Detection: Checking for part overlaps

4. DRAFTING (DRAWINGS)

- Drawing Views: Standard, Section, and Detail views
- Dimensions: Adding measurements to drawings
- Annotations: Adding notes and symbols
- Bill of Materials (BOM): Table listing all assembly parts





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Skill India
कौशल भारत - कुशल भारत

Approved Training Partner of NSDC



N.S.D.C
National
Skill Development
Corporation

Transforming the skill landscape

AIPMA's AMTEC INTRODUCING

Product Design Certification Course

Become a Qualified Product Designer

Duration : 6 Months | Assured Placement



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

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

OUR PLACEMENT PROCESS



Step 1: Counselling & Admission



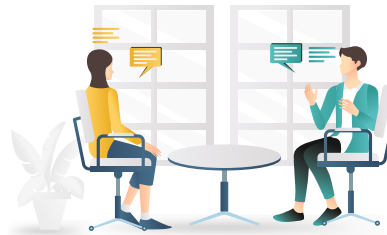
Step 2: Classes & Training



Step 3: Soft Skills



Step 4: CV & Profile Building



Step 5: Mock Interviews



Step 6: Final Selection

OUR VALUED RECRUITERS



TATA MOTORS



MAHINDRA



BAJAJ AUTO



JAY PRECISION



MINDARIKA PVT LTD.



SVP PACKING INDUSTRY PVT. LTD.
ZIPPER BAGS | ZIPPER PROFILES

SVP PACKING INDUSTRY LTD



BIZDENT DEVICES
Pvt. Ltd.

BIZDENT DEVICES PVT LTD



ILLUSION DENTAL LABORATORY



CREATIVE DIES & MOULDS



SHRI KRISHNASHRAY PVT LTD



JYOTI PLASTICS WORKS PVT LTD



VARROC POLYMERS



GALAXY



OLA ELECTRIC



ARMS



COSMOS



Crossed 1100 Admission

CERTIFICATE DISTRIBUTION BY AIPMA'S AMTEC :

NTTF MURBAD



VIDYAVARDHINI COLLEGE VASAI



SHARADASHRAM VIDYAMANDIR DADAR



VIDYAVARDHINI COLLEGE VASAI



DON BOSCO INSTITUTE OF TECHNOLOGY KURLA



OUR ACHIEVEMENT

- A** 300 Plus students employed at yearly package of INR 4,00,000 to INR 6,00,000.
- B** 10,000 Plus Family Members Were Uplifted.
- C** In Total we have Upskilled 1,100 plus Students till date
- D** Pass Out Students Appointed As Product-Designer, 3D Printing Production Engineer, Reverse Engineering Technicians.
- E** Placement done at Companies like TATA Motors, Varroc Polymers, Mindarika Pvt Ltd, Bajaj Auto, Mahindra, Jay Precision, SVP Packing Industry Ltd, ARMS Dental Illusion, Toothsi, OLA Electric Mobility, Creative Dies & Moulds.
- F** As this students are successfully placed through our Job Drive, it fulfills towards the vision of our Prime Minister for Atmanirbhar Bharat
- G** Our Goal: To Give Job To All Upskilled at AMTEC.

OUR JOURNEY

UPSKILLED STUDENTS TILL DATE : 1,100 PLUS & COUNTING



ARVIND MEHTA TECHNOLOGY & ENTREPRENEURSHIP CENTRE (AMTEC)



3RD GLOBAL CONCLAVE ON PLASTIC RECYCLING AND SUSTAINABILITY INTERNATIONAL EXHIBITION
2ND - 5TH JULY, 2026
Bharat Mandapam, IECC, (Pragati Maidan), New Delhi
www.gcprs.org

2ND PLASTIWORLD®
EXPORT ORIENTED PLASTIC PRODUCTS SHOW
23 24 25 MARCH 2026
JIO WORLD CONVENTION CENTER, MUMBAI



PLASTIVISION
INDIA | 21 to 25 JAN 2027
INTERNATIONAL PLASTICS EXHIBITION & CONFERENCE
BOMBAY EXHIBITION CENTRE
www.plastivision.org

FOR COURSE REGISTRATION



Mr. ANIKET SHINDE : +91 83693 46427
a.shinde@amtecedu.org

Mr. JOHN STALIN: +91 97303 36779
stalin@amtecedu.org

Ms. TANISHA SHETTY: +91 72089 96158
tanisha@amtecedu.org



A -53, Street No.1, MIDC Marol, Andheri (East), Mumbai - 400 093, INDIA.



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