NSQF Level: 5





(A Govt. of India Society, Ministry of MSME, Govt. of India)

(An ISO 9001-2015, ISO 14001-2015, ISO 50001-2011 Certified institution)

TOOL DESIGN, CAD/CAM/CAE, 3D PRINTING AND CIVIL ENGINEERING COURSES

NSQF COMPLIANCE COURSES

1. Course Name: ADVANCE CERTIFICATE COURSE IN CNC MACHINING (ACCCM)

Duration: 1560 Hrs. /1 year

Course content:

- ✓ CNC Programming & CNC Machining
- ✓ Engineering Metrology And Quality Assurance (Theory & Practical's)
- ✓ Production Planning & Controls
- ✓ Mastercam: Design, Milling & Turning
- ✓ Delcam: Design, Milling & Turning
- ✓ Total Quality Management
- ✓ Fundamentals of Metal Cutting Tool
- \checkmark Hands on practice on Conventional and CNC machines
- ✓ Entrepreneurship
- ✓ Project Work

Course Fees: Rs. 35,000/-+ Registration fee of Rs.1,000/- for General categories

(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.1000/- to be paid.

Eligibility: I.T.I (Machinist/Turner/Bench Fitter/Tool & Die Maker or equivalent)

2. Course Name: MASTER CERTIFICATE COURSE IN COMPUTER AIDED TOOL ENGINEERING (MCCCAE)

Duration: 780 Hrs. /6 Months

Course Content:

- Autocad: 2D & 3D
- CREO : Modelling, Surfacing, Assembly & Drafting.
- NX/Unigraphics: Modelling, Surfacing, Assembly, Drafting & Manufacturing.
- Ansys: Structural, Thermal
- Hypermesh: Shell mesh, Solid Mesh
- SolidWorks: Modelling, Surfacing, Assembly & Drafting.
- Design of Press Tools
- Design of Moulds
- Hands on practice on Conventional and CNC machines
- Entrepreneurship
- Project Work

Course fees: Rs. 38,000/- + Registration fee of Rs.1,000/- for General categories

(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.1000/- to be paid.

Eligibility: Diploma/ Degree in Mechanical Engineering or equivalent.

3. Course Name: MASTER CERTIFICATE COURSE IN TOOL DESIGN (MCCTD)

Duration: 780 Hrs.\6 Months

Course Content:

- Computer Aided Design (CAD- Autocad and Solidworks)
- Computer Aided Design & Computer Aided Manufacturing (Unigraphics CAD & Unigraphics CAM)
- Design of Jigs & Fixtures
- Design of Press Tools
- Design of Moulds
- Design of Die Casting Dies
- Entrepreneurship
- Hands on practice on Conventional and CNC machines
- Course-work: Project

Course fees: Rs. 38,000 /- + Registration fee of Rs.1,000/- for General categories (Payment can be made in 3 installments) For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.1000/- to be paid.

Eligibility: Diploma / Degree in Mech. Engineering or equivalent.

NSQF Level: 6

NSQF Level: 6

4. Course Name: MASTER CERTIFICATE COURSE IN CAD CAM (MCCCC)

Duration: 780 Hrs. /6 Months

Course Content:

- Autocad: 2D& 3D
- CREO: modelling, Surfacing, Assembly & Drafting.
- CATIA: Modelling, Surfacing, Assembly & Drafting.
- NX Unigraphics: Sketcher, Part, Surfacing, Assembly, Drafting & Manufacturing.
- Ansys: Structural, Thermal
- Solidworks: Modelling, Surfacing, Assembly & Drafting.
- CNC Programming & CNC Machining
- Hands on practice on Conventional and CNC machines
- Entrepreneurship
- Project Work.

Course fees: Rs. 37,000/- + Registration fee of Rs.1,000/- for General categories

(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.1000/- to be paid.

Eligibility: Diploma/ Degree in Mechanical Engineering or equivalent)

5. Course Name: CERTIFICATE COURSE IN MACHINING (CCM)

Duration: 780 Hrs.\6 Months

NSQF Level: 5

Course Content:

- Production Technology
- Engineering Drawing
- Engineering Metrology
- Fundamentals of Computer
- AutoCAD
- Soft kill

Course fees: Rs. 30,000/- + Registration fee of Rs.1,000/- for General categories

(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.1000/- to be paid.

Eligibility: ITI Fitter or its equivalent.

NSQF Level: 6

6. Course Name: CERTIFICATE COURSE IN CNC MILLING (CCCM)

Duration: 780 Hrs.\6 Months

Course Content:

- Engineering Drawing
- Engineering Metrology
- Workshop Technology
- Workshop Calculations
- Quality Management System
- Group Discussion and personality improvement
- CNC Milling programming & CNC Machining
- Employability Skill
- CNC Milling Programming on job training

Course fees: Rs. 30,000/- + Registration fee of Rs.1,000/- for General categories

(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.1000/- to be paid.

Eligibility: SSC passed or its equivalent. Minimum age 15 years

7. Course Name: CERTIFICATE COURSE IN CNC TURNING (CCCT)

Duration: 780 Hrs.\6 Months

NSQF Level: 4

Course Content:

- Engineering Drawing
- Engineering Metrology
- Workshop Technology
- Workshop Calculations
- Quality Management System
- Group Discussion and personality improvement
- CNC Turning programming & CNC Machining
- Employability Skill
- CNC Turning Programming On Job Training

Course fees: Rs. 30,000/- + Registration fee of Rs.1,000/- for General categories

(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.1000/- to be paid.

Eligibility: SSC passed or its equivalent. Minimum age 15 years

NSQF Level: 4

NON-NSQF COMPLIANCE COURSES

<u>3 MONTHS PROGRAMMES</u>

1. Course Name: CERTIFICATE COURSE IN PRODUCT DESIGN AND ANALYSIS

Duration: 3 Months

Course Content:

- Engineering Drawing, GD & T
- Properties of engineering materials
- Concepts of FEA & FEM
- AutoCAD: 2D & 3D
- CREO: Part Modelling, Assembly, Drafting & Sheet Metal
- Ansys: Structural Analysis, Thermal Analysis, Fluent
- Hypermesh: Shell Mesh, Solid Mesh
- Orientation to practical facilities
- Project

Course fees: Rs. 19,470/- (Including Registration fee and GST) for All categories **Eligibility:** Diploma/ Degree (Mech. Engineering or equivalent)

2. Course Name: CERTIFICATE COURSE IN PRODUCT DESIGN AND MANUFACTURING

Duration: 3 Months

Course Content:

- Engineering Drawing, GD & T
- Properties of engineering materials
- Design Principles & Design Procedure, Basics of DFM
- Types of cutters & operations, selection criteria
- Hands on practical training on conventional & CNC Machines
- AutoCAD: 2D & 3D
- CREO: Modelling, Surfacing, Assembly, Drafting
- CNC Programming: 2D(Milling & Turning)
- Mastercam: Design, Milling & Turning
- PROJECT

Course fees: Rs.19,470/- (Including Registration fee and GST) for All categories **Eligibility:** Diploma/ Degree (Mech. Engineering or equivalent)

3. Course Name: CERTIFICATE COURSE IN CNC PROGRAMMING & MACHINING

Duration: 3 Months

Course Content:

- Engineering Drawing, GD & T
- Engineering Metrology
- Autocad-2D &3D
- Process Planning
- Hands on practical training on conventional & CNC Machines
- Types of cutters & operations, selection criteria
- CNC Programming: 2D(Milling & Turning)
- NX/UNIGRAHICS: Modeling, Surfacing, Assembly, Drafting & Manufacturing
- Mastercam: Design, Milling & Turning
- PROJECT

Course fees: Rs. 19,470/- (Including Registration fee and GST) for All categories **Eligibility:** Diploma/ Degree (Mech. Engineering or equivalent)

4. Course Name: DESIGN OF MOULDS

Duration: 3 Months

Course Content:

- Engineering Drawing, GD & T
- Design Principles & Design Procedure, Basics of DFM
- Production Planning
- Introduction to Plastic Moulds
- Design considerations of Plastic Injection Mould
- Designing of Plastic Injection Mould
- NX Unigraphics (Part Modelling, Assembly, Mould wizard)
- Hands on practice on Conventional and CNC machines
- PROJECT-Design and Modelling of Plastic Injection Mould

Course fees: Rs.19,470/- (Including Registration fee and GST) for All categories **Eligibility:** Diploma/ Degree (Mech. Engineering or equivalent)

5. Course Name: DESIGN OF PRESS TOOLS

Duration: 3 Months

Course Content:

- Engineering Drawing, GD & T
- Design Principles & Design Procedure, Basics of DFM
- Production Planning
- Introduction to Sheet Metal Parameters
- Strip layout Design, Blank design
- Design of Sheet Metal Forming Tool
- CREO (Part Modelling, Assembly, Drafting & Sheet Metal)
- Hands on practice on Conventional and CNC machines
- PROJECT- Design of Press Tool

Course fees: Rs. 19,470/- (Including Registration fee and GST) for All categories **Eligibility:** Diploma/ Degree (Mech. Engineering or equivalent)

6/14

ONE MONTH PROGRAMMES

1. Course Name: AUTOCAD

Duration: 96 Hrs

Course Content:

• AutoCAD: 2D & 3D

Course fees: Rs.6,490/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: ITI with relevant experience / Diploma / Degree (Mech. Engineering or equivalent)

2. Course Name: CNC Programming - Milling

Duration: 96 Hrs

Course Content:

• CNC Programming: Milling

Course fees: Rs.6,490/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: ITI with relevant experience / Diploma / Degree (Mech. Engineering or equivalent)

3. Course Name: CNC Programming - Turning

Duration: 96 Hrs

Course Content:

• CNC Programming: Turning

Course fees: Rs.6,490/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: ITI with relevant experience / Diploma / Degree (Mech. Engineering or equivalent)

4. Course Name: CREO PARAMETRIC

Duration: 96 Hrs

Course Content:

• CREO: Part Modelling, Assembly, Drafting & Sheet Metal

Course fees: Rs. 9,440 /- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: Diploma / Degree (Mech. Engineering or equivalent)

5. Course Name: CATIA

Duration: 96 Hrs

Course Content:

• CATIA: Part Modelling, Surfacing, Assembly, Drafting & Sheet Metal

Course fees: Rs. 9,440/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: Diploma / Degree (Mech. Engineering or equivalent)

7/14

6. Course Name: SOLIDWORKS

Duration: 96 Hrs

Course Content:

• SOLIDWORKS: Part Modelling, Surfacing, Assembly, Drafting & Sheet Metal

Course fees: Rs. 9,440/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: Diploma / Degree (Mech. Engineering or equivalent)

7. Course Name: NX/UNIGRAPHICS CAD

Course Content:

• UNIGRAHICS: Part Modelling, Surfacing, Assembly& Drafting

Course fees: Rs. 9,440/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: Diploma / Degree (Mech. Engineering or equivalent)

8. Course Name: NX/UNIGRAPHICS CAM

Duration: 1 Months

Course Content:

• NX Unigraphics: Manufacturing (Milling & Turning)

Course fees: Rs. 9,440/- (Including Registration fee and GST) for All categories **Eligibility:** Diploma / Degree (Mech. Engineering or equivalent)

9. Course Name: ANSYS

Duration: 96 Hrs **Course Content**:

• ANSYS: Structural Analysis, Thermal Analysis

Course fees: Rs. 9,440/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: Diploma / Degree (Mech. Engineering or equivalent)

10. Course Name: MASTERCAM

Duration: 96 Hrs **Course Content**:

• Mastercam: Design, Milling & Turning

Course fees: Rs. 9,440/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: Diploma / Degree (Mech. Engineering or equivalent)

11. Course Name: DELCAM

Duration: 96 Hrs.

Course Content:

• Delcam: Design, Milling & Turning

Course fees: Rs. 9,440/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: Diploma / Degree (Mech. Engineering or equivalent)

12. Course Name: MSC NASTRAN & PATRAN

Duration: 1 Month

Course Content:

• MSC Nastran & Patran: Structural, Thermal

Course fees: Rs. 9,440/- (Including Registration fee and GST) for All categories **Eligibility**: Diploma / Degree (Mech. Engineering or equivalent)

13. Course Name: HYPERMESH

Duration: 96 Hrs

Course Content:

• Hypermesh: Shell Mesh & Solid Mesh

Course fees: Rs. 9,440/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: Diploma / Degree (Mech. Engineering or equivalent)

14. Course Name: WELDING SIMULATION FOR ARC, TIG & MIG WELDING

Duration: 96 Hrs Course content: Welding simulation on ARC, TIG and MIG

Course fees: Rs. 7,670/- (Including Registration fee and GST) for All categories **Eligibility**: Diploma / Degree (Mech. Engineering or equivalent)

15. Course Name: COMPUTER HARDWARE & NETWORKING

Duration: 96 Hrs **Course content:** PC, Work station assembly and Maintenance and Networking concepts

Course fees: Rs. 6,490/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: SSC with Knowledge in Electronics

16. Course Name: GD&T (Geometrical Dimensioning & Tolerancing)

Duration: 96 Hrs **Course Content**:

- Read and understand basic GDT symbols on a DRAWING.
- Set up and use basic Geometrical datum references
- In a position to recommend and apply GD&T.

Course fee: Rs.5,900/- (Including Registration fee and GST) for All categories **Eligibility:** Diploma / Degree (Mech. Engineering or equivalent)

17. Course Name: NX/UNIGRAPHICS (Multi axis CNC Programming (3, 4 &5))

Duration: 96 Hrs

Course Content:

- Introduction to manufacturing methods & various machining processes.
- Introduction to multi-axis machining and 2D & 3D machining processes.
- How to generate Multi-axis tool path & CNC programming.
- Benefits of Multi-axis machining.

Course fee: Rs. 9,440/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: Diploma / Degree (Mech. Engineering or equivalent)

3D PRINTING COURSES

<u>3 MONTHS and 1 MONTH</u>

1. Course Name: Product Design & Development using 3D Printing (FDM Technology).

Duration: 3 Months

Course content:

- Solidworks Part Modelling
- Introduction to Industry 4.0 & Emerging technologies
- Overview on 3D Printing/Additive Manufacturing/Rapid Prototyping
- Comparison between Conventional & Un-conventional manufacturing
- About Methods, Machines, Materials & Manufacturing technologies in A.M
- Assembly & Disassembly of a FFF 3D Printer
- Tutorial on Slicing software Settings & Print Parameters in Cura Engine.
- Hands-on experience exercises on 3D Printer FFF/FDM
- Mini Project

Course Fees: Rs.19,470/- (Including Registration fee & GST) for all categories **Eligibility:** Diploma/Degree (Mech.Engineering or Equivalent)

2. Course Name: 3D PRINTING

Duration: 1 Month/ 96 Hrs.

Course Content:

- Navigating through methods, materials, & manufacturing systems.
- From idea to Prototyping & Production.
- Hands of Assembly of DIY 3D Printer along with slicing software.

Course fee: Rs.6,490/- (Including Registration fee and GST) for General categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid.

Eligibility: Diploma / Degree (Mech. Engineering or equivalent)

CIVIL ENGINEERING COURSES

<u>3 MONTHS PROGRAMMES</u>

1. Course Name: CERTIFICATE COURSE IN CIVIL ARCHITECTURE

Duration: 3 Months

Course Content:

- AutoCAD Civil: 2D ,3D and Architectural planning
- Revit Architecture: 2D & 3D plans, Elevation Designs
- 3Ds Max: 3D Modeling and Interior Design
- Quantity Survey: Architectural and Structural estimation

Course fee: Rs. 19,470 /- (Including Registration fee and GST) for All categories **Eligibility**: Diploma / B.E/B.Tech in Civil, Architecture or its equivalent

2. Course Name: CERTIFICATE COURSE IN CIVIL STRUCTURE

Duration: 3 Months

Course Content:

- AutoCAD Civil: 2D ,3D and Architectural planning
- Revit Structure: 2D & 3D plans, Elevation Designs
- STAAD Pro: 3D Modeling and Interior Design
- Quantity Survey: Architectural and Structural estimation

Course fee: Rs. 19,470 /- (Including Registration fee and GST) for All categories **Eligibility**: Diploma / B.E/B.Tech in Civil, Architecture or its equivalent

ONE MONTH PROGRAMMES

1. Course Name: AUTOCAD CIVIL

Duration: 96 Hrs

Course Content:

• AutoCAD: 2D ,3D and Architectural planning

Course fee: Rs. 6,490 /- (Including Registration fee and GST) for General Categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid

Eligibility: Diploma / B.E/B.Tech in Civil, Architecture or its equivalent.

2. Course Name: REVIT ARCHITECTURE

Duration: 96 Hrs

Course Content:

• Revit Architecture: 2D & 3D plans, Elevation Designs

Course fee: Rs. 8,850 /- (Including Registration fee and GST) for General Categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid

Eligibility: Diploma / B.E/B.Tech in Civil, Architecture or its equivalent.

3. Course Name: REVIT STRUCTURE

Duration: 96 Hrs

Course Content:

• Revit Structure: Structural Modelling and Detailing

Course fee: Rs. 8,850 /- (Including Registration fee and GST) for All Categories **Eligibility**: Diploma / B.E/B.Tech in Civil, Architecture or its equivalent.

4. Course Name: 3DS MAX

Duration: 96 Hrs

Course Content:

• 3Ds Max: 3D Modeling and Interior Design

Course fee: Rs. 8,850 /- (Including Registration fee and GST) for General Categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid

Eligibility: Diploma / B.E/B.Tech in Civil, Architecture or its equivalent.

5. Course Name: STAAD PRO

Duration: 96 Hrs

Course Content:

• Staad Pro: Structural Design and Analysis

Course fee: Rs. 8,850 /- (Including Registration fee and GST) for General Categories For SC/ST Candidates fee waiver will be provided as per Govt. of India norms, Registration Fee of Rs.590/- to be paid

Eligibility: Diploma / B.E/B.Tech in Civil, Architecture or its equivalent.

INTERNSHIP/ACADEMIC PROJECT WORKS FOR ENGINEERING STUDENTS

1. ACADEMIC PROJECT WORK/ INTERNSHIP

Duration: 1 Month

• Any one Modeling software with Ansys software

Course fees: Rs. 9,440 /- (Including Registration fee and GST) for All categories **Eligibility:** Pursuing B.E/B.Tech in Mechanical Engineering or its Equivalent

INDUSTRIAL TRAINING AND ACADEMIC PROJECT WORKS FOR DIPLOMA STUDENTS

1. INDUSTRIAL TRAINING

Duration: 6 Months

Course fees: Rs.6500/- (Including Registration fee and GST) for All categories **Eligibility**: Pursuing Diploma in Mechanical Engineering or its Equivalent

2. DIPLOMA ACADEMIC PROJECT WORK

Duration: 12 working days in 3 Months (FEBRUARY, MARCH & APRIL every Year)

Course Content: CNC Programming and Machining

Course fees: Rs.2360/- (Including Registration fee and GST) for All categories **Eligibility**: Final year Diploma students in Mechanical Engineering Stream or its Equivalent

Note:

- > All the above courses will commences on 1st and 3rd Wednesday of every Month.
- Minimum 90% of attendance is mandatory to receive course completion certificate from the Institute.
- For getting admission trainees should submit their qualification certificates, and Id proof (Aadharcard) at the time of admission.
- > Limited Accommodation facility is available on chargeable basis
- ➢ For more details contact at 040 29561793 or 6309638007,

E-mail:-onlinetraining1@citdindia.org