



# MSME TECHNOLOGY CENTRE INDO GERMAN TOOL ROOM, AURANGABAD

(A Government of India Society, Ministry of MSME)

AN ISO 9001:2008, ISO 29990:2010, ISO 14001:2004, BS OHSAS 18001:2007,  
ISO 50001:2011 & ISO/IEC 17025:2005 CERTIFIED TOOL ROOM & TRAINING CENTRE



## Training Calender 2017-18

- TOOL DESIGN
- CAD / CAM / CAE
- QUALITY ASSURANCE
- PRECISION MACHINING
- 3D PRINTING / SCANNING
- CNC PROGRAMMING MACHINING
- LASER CALIBRATION OF MACHINES
- COMPUTER HARDWARE / NETWORKING
- ELECTRICAL / ELECTRONICS GADGETS
- CIVIL / ARCHITECTURAL DESIGN
- MECHATRONICS / ROBOTICS
- LOW COST AUTOMATION
- TOOL MANUFACTURING
- PROJECT MANAGEMENT
- WELDING TECHNOLOGY



IDEAS TO CONCEPTS

CONCEPTS TO REALIZATION



Indo German Tool Room (IGTR) Aurangabad (A Govt. of India Society, Under Ministry of MSME) an ISO 9001:2008, ISO 29990:2010, ISO 14001:2004, BS OHSAS 18001:2007, ISO/IEC 17025:2005 CERTIFIED Training & Production Centre established in the year 1990 is aimed at promoting purposeful technical education for the youth in India.

The modernization of Indo German Tool Room Aurangabad (IGTR) under Ministry of MSME's Technology Centre System Programme (TCSP) at Aurangabad is going to strengthen its role in TC enhancing the competitiveness of MSME units in the region. The project is undertaken to upgrade & enhance its resources particularly in Automotive sector, but will also enable the TC to extend its services to other industry also more effectively. The organization implements its Program of technical training through its Training Centre located at Aurangabad and Extension Centres at Pune, Nagpur & Mumbai.

MoU has been signed with Dr. Babasaheb Ambedkar Marathwada University (BAMU) Aurangabad for jointly conducting Post Graduate Programmes in the area of M.Tech, M.Voc. & also MOU has been signed between The Welding Institute (TWI), UK for setting up Advance Welding Lab including Laser, Seam, Spot Welding etc. & developing & conducting Advance Welding Courses.

IGTR has ultramodern, state-of-the-art Tool Room facilities under single roof. It is a Dream Tool Room for any Tool Maker. The wide spectrum of sophisticated machines include latest & advance CNC Lathe, Milling, EDM & Wire-Cut 3D Printing (Metal), 3D Printing (Plastics), 3D Scanner, CNC Jig Grinding, CNC Turn Mill, 5 Axis CNC Mill Turn, High Precision 5 - Axis Machining center, which can cater to various requirements of the customers.

IGTR strongly believes in TQM Philosophy. This belief is evident in the procedures adopted for ensuring quality before and after manufacture. High precision equipment like CNC Co-ordinate Measuring Machine, Electronic Height Master, Profile Projector and Tool Maker's Microscope ensure thorough checking of the components. A full-fledged standards room and NABL Accredited calibration Lab Offers Precision measuring/Inspection of job and Calibration of Measuring instrument services as per standards requirements. In addition, trials of the tools are undertaken on the Mechanical Press and Injection Moulding Machines.

Equipped with state-of-the-art machinery & training facilities, the various activities are :

## ACTIVITIES

### TOOL DESIGN & MANUFACTURING

- Design and manufacture of precision dies and tools, moulds jigs & fixtures, gauges etc. and their appropriate use and maintenance.
- Tool manufacturing using latest technology
- Tool related innovations for improved product design.
- Precision machining and Heat Treatment.
- Tool Trials for Press Tools & Injection Moulds.

### TRAINING

- Long / Medium / Short Term Courses In Tool & Die Technology, Automation & Welding.
- Specialized Hi-tech Courses For Engineering Graduates, Diploma, ITI & SSC Pass Outs.
- Skilled Enhancement Courses For Industry Personnel.
- Skill Up-gradation Courses For Trainers From Institutes.
- Custom Designed Training Programs For International Trainees.

### CONSULTANCY & OTHERS

- Product & Process Development
- Productivity / Quality improvement
- Training Programme / Course curriculum development for training institutes
- Execution of Turn-key projects.

### QUALITY ASSURANCE

- Precision Measurements with CMM
- Inspection of Tools, Dies, Gauges and Sheet Metal/Plastic Components
- Product Developments Using Reverse Engineering

### CALIBRATION SERVICES

- Calibration of Measuring Equipments (As Per ISO / IEC 17025:2005 Std.-NABL Accredited Calibration Lab)  
• Vernier Caliper • Micrometer • Dial Gauges • Height Gauges • Depth Gauges
- Laser Calibration of Machines  
• Calibration of linear movements for CNC Machine with renishaw laser calibration machine

### PRODUCT DESIGN & DEVELOPMENT

- 3D Printing Plastic
- 3D Printing Metal
- Reverse Engineering
- Model Development with 3D Scanner





Completely equipped with latest CNC & Conventional machines Training Center offers scientifically designed Long, Medium & Short Term Courses in the field of Tool & Die Technology. Scientifically designed curriculum ensure optimum blending of theory and practice using latest pedagogical techniques and teaching Aids by trainers. Training aims at.

- Bridging the gap of trained for 21<sup>st</sup> Century.
- Giving the vocational direction to youth for development of technical skill.
- Gainful employment in high-tech area.
- Entrepreneurial skill with techno-commercial knowledge.
- Professional ethics, work culture & personality development.
- Awareness towards the Nation, Society & Environment.

## TRAINING PROGRAMMES

### WIDE SPECTRUM CAREER ORIENTED COURSES BEING CONDUCTED ARE

LONG TERM COURSES	• Advance Diploma in Tool & Die Making	- ADTDM	SSC Pass Outs
	• Diploma in Mechatronics	- DIM	
	• Certificate Course in Machinist (Tool Room) NSQF Level - 5	- CCMTR	
	• Post Graduate Diploma in Tool Design & CAD / CAM NSQF Level - 8	- PGDTD & CC	B.E. Graduates
	• Post Graduate Diploma in Mechanical Product Design NSQF Level - 8	- PGDMPD	
	• Post Graduate Diploma in Mechatronics NSQF Level - 8	- PGDIM	
	• Post Diploma in Tool Design & CAD / CAM NSQF Level - 6	- PDTD & CC	BE / Diploma Graduates
	• Post Diploma in Tool & Die Manufacturing NSQF Level - 6	- PDTDM	
	• Post Diploma in Computer Aided Engineering NSQF Level - 6	- PDCAE	
	• Post Diploma in Product Design	- PDPD	
	• Post Diploma in CNC Machine Maintenance NSQF Level - 6	- PDCNCMM	
	• Post Diploma in Mechatronics NSQF Level - 6	- PDIM	
	• Post Diploma in VLSI & Embedded Systems	- PDVLSI	
	• Post Diploma in Industrial Automation/Robotics NSQF Level - 6	- PDIA/R	
	• Advance Certificate Course in Tool Design & CAD / CAM NSQF Level - 5	- ACCTD & CC	ITI Pass Outs
	• Advance Certificate Course in Tool & Die Manufacturing NSQF Level - 5	- ACCTDM	
	• Advance Certificate Course in CNC Machining NSQF Level - 5	- ACCCM	
	• Advance Certificate Course in Machine Maintenance NSQF Level - 5	- ACCMM	
	• Advance Certificate Course in Welding Technology NSQF Level - 5	- ACCWT	
MEDIUM TERM COURSES	• Certificate Course in CNC Turning & Milling NSQF Level - 4	- CCCTM	SSC Pass/Dropout
	• Certificate Course in Tool & Die Making NSQF Level - 4	- CCTDM	
	• Certificate Course in Machine Tool & Welding Operations	- CCMT&WO	
	• Certificate Course in Machine Maintenance & Welding Operations	- CCMM&WO	SSC Passouts
	• Certificate Course in CNC Machine Operation - Wire Cut & EDM	- CCMO(W&E)	
	• Certificate Course in CNC Machine Operations - Lathe NSQF Level - 4	- CCCMO(L)	
	• Certificate Course in CNC Machine Operations - Milling NSQF Level - 4	- CCCMO(M)	12th Passouts/BSc Graduates/ ITI
	• Advance Certificate Course in Inspection & Quality Control NSQF Level - 5	- ACCIQC	
	• Master Certificate Course in Automation & Process Control NSQF Level - 7	- MCCAPC	
	• Master Certificate Course in Computer Aided Tool Engineering NSQF Level - 6	- MCCATE	Full Time BE / Diploma / ITI
	• Master Certificate Course in CAD/CAM NSQF Level - 6	- MCCC	
	• Master Certificate Course in Tool Design NSQF Level - 6	- MCCTD	
	• Master Certificate Course in Welding Operations	- MCCWO	
	• Master Certificate Course in CNC Technology NSQF Level - 6	- MCCCT	
	• Master Certificate Course in Mechatronics NSQF Level - 6	- MCCM	
	• Master Certificate Course in Product Design NSQF Level - 6	- MCCPD	
	• Advance Diploma in Structural Design & Analysis NSQF Level - 6	- ADSDA	Part Time BE / Diploma / ITI
	• Advance Diploma in Machine Maintenance & Automation NSQF Level - 6	- ADMMA	
	• Certificate Course in Mechatronics	- CCM	
	• Certificate Course in VLSI & Embedded System Design	- CCVESD	
	• Certificate Course in CAD/CAM	- CCCC	
	• Certificate Course in Tool Design	- CCTD	
	• Certificate Course in Tool Design & CAD/CAM	- CCTDCC	
	• Certificate Course in Product Design	- CCPD	
	• Certificate Course in Reverse Engineering & 3D Printing	- CCRE&3D	



**SHORT TERM COURSES** Skill Development Programmes in the field of CAD/CAM/CAE, Automation, General Engineering Welding for Diploma/Engineering Graduates, Professionals, Professionals of Micro, Small & Medium Enterprises  
**INTERNATIONAL PROGRAMMES** Specific Custom Designed Training Programmes of 12 Weeks to 1 Year duration in the area of Tool Design, CAD/CAM, CNC Machining, LCA, Trainer's Training as per International customers requirement.  
**ENTREPRENEURSHIP SKILL DEVELOPMENT PROGRAMMES SPONSORED BY MINISTRY OF MSME (Govt. of India)**



### Career Oriented Courses for SSC Passouts. (Subject to Entrance Exam)

#### A 1. Advance Diploma in Tool & Die Making (ADTDM)

- Objectives** : To Design & Manufacture intricate tools like Press Tools, Plastic Moulds, Jigs, Fixtures & Gauges etc. with exposure to 60 modern Die Design & Manufacturing Technology Independently.
- Duration** : 04 years **Intake** : 60 **Course Fee** : Rs. 1,60,000/-
- Eligibility** : 10<sup>th</sup> Std. with 60% marks in aggregate (50% for reserved category candidates)
- Age** : 15-19 years as on 1<sup>st</sup> August (3 years relaxation for SC / ST candidates)

#### A 2. Diploma in Mechatronics(DIM)

- Objectives** : To Provide knowledge of mechatronics system controls & skill to operate a wide variety of mechatronics equipment & controls.
- Duration** : 03 years **Intake** : 60 **Course Fee** : Rs. 1,20,000/-
- Eligibility** : 10<sup>th</sup> Std. with 60% marks in aggregate (50% for reserved category candidates)
- Age** : 15-19 years as on 1<sup>st</sup> August (3 years relaxation for SC / ST candidates)

#### A 3. Certificate Course in Machinist (Tool Room) (CCMTR) NSQF LEVEL- 5

- Objectives** : To produce different parts of Press Tools, Plastic Moulds, Jigs, Fixtures & Gauges etc. on Conventional Tools independently with exposure to CNC Technology.
- Duration** : 02 years **Intake** : 20 **Course Fee** : Rs. 65,000/-
- Eligibility** : 10<sup>th</sup> Std. with 60% marks in aggregate (50% for reserved category candidates)
- Age** : 15-19 years as on 1<sup>st</sup> August (3 years relaxation for SC / ST candidates)

**Note:** New Batch will be started from first Monday of August Every Year

### Career Oriented Courses for BE / DIPLOMA

#### A 4. Post Graduate Diploma in Tool Design & CAD/CAM (PGDTD&CC) NSQF LEVEL- 8

- Objectives** : To be acquainted with modern Tool Design & CAD/CAM Technology.  
To plan and execute the Design & Manufacturing of Press Tools, Plastic Moulds, Die Casting Dies, Jigs & Fixtures, etc. using Computer Aided Design, Computer Aided Manufacturing, CNC Programming & Machining.
- Duration** : 18 Months **Intake** : 30 **Course Fee** : Rs. 1,05,000/-
- Eligibility** : Degree in Engineering (Mech. / Prod. / Automobile) or Equivalent

#### A 5. Post Graduate Diploma in Mechanical Product Design (PGDMPD) NSQF LEVEL- 8

- Objectives** : To be acquainted with Mechanical Product Design Techniques.  
To plan and execute the Mechanical Product Design using CAD/CAM & Additive Manufacturing.
- Duration** : 12 Months **Intake** : 30 **Course Fee** : Rs. 1,05,000/-
- Eligibility** : Degree in Engineering (Mech. / Prod. / Automobile) or Equivalent

#### A 6. Post Graduate Diploma in Mechatronics(PGDIM) NSQF LEVEL- 8

- Objectives** : To be acquainted with Mechatronics system controls.  
To plan & Execute the automation solutions using PLC Programming Hydraulics & Pneumatics, SCADA.
- Duration** : 18 Months **Intake** : 30 **Course Fee** : Rs. 1,05,000/-
- Eligibility** : Degree in Engineering (Mech. / Elec. / E&TC / Instrumentation) or Equivalent

#### A 7. Post Diploma in Tool Design & CAD/CAM (PDTD&CC) NSQF LEVEL- 6

- Objectives** : To be acquainted with modern Tool Design & CAD/CAM Technology.  
To plan and execute the Design of Press Tools Jigs & Fixtures, etc. Using Computer Aided Design, with Knowledge of Computer Aided Manufacturing, CNC Programming & Machining.
- Duration** : 12 Months **Intake** : 30 **Course Fee** : Rs. 70,000/-
- Eligibility** : Diploma in Engineering (Mech. / Prod. / Automobile) or Equivalent

#### A 8. Post Diploma in Tool & Die Manufacturing (PDTDM) NSQF LEVEL- 6

- Objectives** : To be acquainted with modern Tool & Die Manufacturing Technology.  
To plan and execute the Manufacturing of Tool & Dies using latest Computer Aided Design, Computer Aided Manufacturing, CNC Programming & Machining Practices.
- Duration** : 12 Months **Intake** : 30 **Course Fee** : Rs. 70,000/-
- Eligibility** : Diploma in Engineering (Mech. / Prod. / Automobile) or Equivalent

**Note:** New Batch will be started from First Monday of January, April, July & October of Calendar Year  
Institute reserves right to incorporate changes in course content, duration, intake capacity, no. of batches & course fee without prior notice.





## Career Oriented Courses for BE / DIPLOMA / ITI

### A 9. Post Diploma in Computer Aided Engineering (PDCAE) NSQF LEVEL- 6

- Objectives** : To be acquainted with modern Tool Engineering Technology.  
To plan and execute the Manufacturing of Tool & Dies using latest Computer Aided Design, Computer Aided Manufacturing, CNC Programming & Machining Practices.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 70,000/-
- Eligibility** : Diploma in Engineering (Mech. / Prod. / Automobile) or Equivalent

### A 10. Post Diploma in Product Design (PDPD)

- Objectives** : To be acquainted with Product Design Techniques.  
To plan and execute the Product Design using CAD/CAM & Additive Manufacturing.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 70,000/-
- Eligibility** : Degree / Diploma in Engineering (Mech. / Prod. / Automobile) or Equivalent

### A 11. Post Diploma in CNC Machine Maintenance (PDCNCMM) NSQF LEVEL- 6

- Objectives** : To be acquainted with modern day Machine Maintenance Techniques.  
To plan & Execute the Maintenance automation solutions using PLC Programming, SCADA, Hydraulics & Pneumatics & other Mechatronics system controls of the CNC Machine & their Maintenance schedules.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 70,000/-
- Eligibility** : Diploma in Engineering (Mech. / Elec. / E&TC / Instrumentation) or Equivalent

### A 12. Post Diploma in Mechatronics(PDIM) NSQF LEVEL- 6

- Objectives** : To be acquainted with Mechatronics system controls.  
To plan & Execute the automation solutions using PLC Programming Hydraulics & Pneumatics, SCADA.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 70,000/-
- Eligibility** : Diploma in Engineering (Mech. / Elec. / E&TC / Instrumentation) or Equivalent

### A 13. Post Diploma in VLSI & Embedded Systems (PDVLSI)

- Objectives** : To be acquainted with ASIC Design and Verification, Embedded Design system.  
To plan & Design solutions for small size, high speed, high performance computational applications using VLSI & Embedded circuits.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 70,000/-
- Eligibility** : Degree / Diploma in Engineering (Mech. / Elec. / E&TC / Instrumentation) or Equivalent

### A 14. Post Diploma in Industrial Automation/Robotics(PDIA/R) NSQF LEVEL- 6

- Objectives** : To be acquainted with modern day Industrial Automation Techniques.  
To plan & execute the Industrial Automation & Robotics application using Mechatronics System control.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 70,000/-
- Eligibility** : Diploma in Engineering (Mech. / Elec. / ETC / Instrumentation) or Equivalent

### A 15. Advance Certificate Course in Tool Design & CAD/CAM (ACCTD&CC) NSQF LEVEL- 5

- Objectives** : To be acquainted with modern Tool Design & CAD/CAM Technology.  
To plan and execute the Design of Press Tools Jigs & Fixtures, etc. Using Computer Aided Design, Computer Aided Manufacturing, CNC Programming & Machining.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 70,000/-
- Eligibility** : I.T.I. (Machinist / Turner / Bench Fitter / Tool & Die Maker / Draftsman Mech.)

### A 16. Advance Certificate Course in Tool & Die Manufacturing (ACCTDM) NSQF LEVEL- 5

- Objectives** : To be acquainted with modern Tool & Die Manufacturing Technology.  
To plan and execute the Manufacturing of Tool & Dies using latest Computer Aided Design, Computer Aided Manufacturing, CNC Programming & Machining Practices.
- Duration** : 12 Month      **Intake** : 30      **Course Fee** : Rs. 70,000/-
- Eligibility** : I.T.I. (Machinist / Turner / Bench Fitter / Tool & Die Maker)

**Note:** New Batch will be started from First Monday of January, April, July & October of Calendar Year  
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### Career Oriented Courses for ITI / SSC Passouts / SSC Appeared

#### A 17. Advance Certificate Course in CNC Machining (ACCCM) NSQF LEVEL- 5

- Objectives** : To be acquainted with CNC Machining Techniques using Latest CNC Machining Technology.  
To Program & Handle CNC Machines (Lathe, Milling, Wire-cut & EDM) - live Projects.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 60,000/-
- Eligibility** : I.T.I. (Machinist / Turner / Bench Fitter / Tool & Die Maker / Grinder)



#### A 18. Advance Certificate Course in Machine Maintenance (ACCM) NSQF LEVEL- 5

- Objectives** : To be acquainted with CNC Machine Maintenance ( Mechanical, Electrical, Electronics) with live projects on CNC Machine & Conventional Maintenance.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 40,000/-
- Eligibility** : I.T.I. (Machinist / Turner / Electrician / Tool & Die Maker / Electronics / MMTM / MMTR)

#### A 19. Advance Certificate Course in Welding Technology (ACCWT) NSQF LEVEL- 5

- Objectives** : To be acquainted with Advance Welding techniques with live projects on Arc Welding, Gas Welding, MIG / MAG Welding, TIG Welding.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 60,000/-
- Eligibility** : I.T.I. (Turner / Fitter / Machinist / Welder)

#### A 20. Certificate Course in CNC Turning & Milling (CCCTM) NSQF LEVEL- 4

- Objectives** : To be acquainted with Manufacturing Elements of Press Tools, Plastic Moulds, Jigs, Fixtures & Gauges, Die Casting Dies, etc. Using CNC Technology.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 55,000/-
- Eligibility** : 10<sup>th</sup> Pass.

#### A 21. Certificate Course in Tool & Die Making (CCTDM) NSQF LEVEL- 4

- Objectives** : To be acquainted with Manufacturing Elements of Press Tools, Plastic Moulds, Jigs, Fixtures & Gauges, Die Casting Dies, etc., on conventional machines independently with exposure to CNC Technology.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 50,000/-
- Eligibility** : 10<sup>th</sup> Pass.



#### A 22. Certificate Course in Machine Tool Operations & Welding Operations (CCMT&WO)

- Objectives** : To be acquainted with Conventional Machine Operations & Basic Welding Operations like Gas Welding & Arc Welding.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 30,000/-
- Eligibility** : 10<sup>th</sup> Appeared

#### A 23. Certificate Course in Machine Maintenance & Welding Operations (CCMM&WO)

- Objectives** : To be acquainted with Conventional Machine Maintenance (Mechanical) & Basic Welding Operations like Gas Welding & Arc Welding.
- Duration** : 12 Months      **Intake** : 30      **Course Fee** : Rs. 30,000/-
- Eligibility** : 10<sup>th</sup> Appeared



**Note** : New Batch will be started from First Monday of February, May, August & November of Calendar Year  
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## SKILL DEVELOPMENT PROGRAMMES

### B.1 : For DEGREE

#### B.1 a Master Certificate Course in Automation & Process Control NSQF LEVEL- 7

- Electrical Hardware Logic Control, Electrical Machines
- Sensor & Transducer, E-CAD
- Pneumatics & Hydraulics System
- Programmable Logic Controller
- SCADA & HMI, TIA- Portal
- Embedded Systems, Robotics
- Machine Maintenance
- Communication Skill, Project Work

Duration : 24 weeks (8 hrs / day)

Course Fees : Rs. 40,000/-

### B.2 : For DEGREE / DIPLOMA

#### B.2 a Master Certificate Course in Computer Aided Tool Engineering NSQF LEVEL- 6

- Computer Aided Design (Auto CAD & Solidworks)
- Computer Aided Design & Manufacturing (Unigraphics CAD & Unigraphics CAM)
- Advance Computer Aided Design (CREO)
- Computer Aided Engineering (Ansys & Hypermesh)
- Design of Press Tools, Design of Moulds
- Entrepreneurship, Course - Work : Project

Duration : 24 Weeks (8 hrs / day)

Course Fees : Rs. 40,000/-

#### B.2 b Master Certificate Course in CAD/CAM NSQF LEVEL- 6

- Computer Aided Design (Auto CAD & Solidworks)
- Computer Aided Design & Manufacturing (Unigraphics CAD & Unigraphics CAM)
- Advance Computer Aided Design (CREO & CATIA)
- CNC Programming & CNC Machining
- Computer Aided Engineering (Ansys)
- Entrepreneurship, Course - Work : Project

Duration : 24 Weeks (8 hrs / day)

Course Fees : Rs. 40,000/-



#### B.2 c Master Certificate Course in Tool Design NSQF LEVEL- 6

- Computer Aided Design (Auto CAD & Solidworks)
- Computer Aided Design & Manufacturing (Unigraphics CAD & Unigraphics CAM)
- Design of jigs & Fixtures, Press Tools, Moulds
- Design of Die Casting Dies
- Entrepreneurship, Course - Work : Project

Duration : 24 weeks (8 hrs / day)

#### B.2 d Master Certificate Course in Welding Operation

- Advance Welding Technology
- Arc Welding, Gas Welding
- MIG / MAG Welding, TIG Welding
- Entrepreneurship, Course - Work : Project

Duration : 24 weeks (8 hrs / day)

Course Fees : Rs. 40,000/-

#### B.2 e Master Certificate Course In CNC Technology NSQF LEVEL- 6

- CNC Machining (Lathe & Milling)
- CNC Programming (Lathe & Milling - Fanuc series)
- Advance CAM (Master CAM & UG CAM)
- Del CAM
- Business Communication, Course - Work : Project

Duration : 24 weeks (8 hrs / day)

Course Fees : Rs. 40,000/-

#### B.2 f Master Certificate Course in Mechatronics NSQF LEVEL- 6

- Industrial Pneumatics & Hydraulics
- SCADA, PLC Programming
- E-CAD, Sensors & Actuators
- Mechatronics Technology & kits
- Entrepreneurship, Course - Work : Project

Duration : 24 weeks (8 hrs / day)

Course Fees : Rs. 40,000/-

#### B.2 g Master Certificate Course in Product Design NSQF LEVEL- 6

- Computer Aided Design (Auto CAD & Solidworks)
- Computer Aided Manufacturing (DELCAM)
- Advance CAD (CREO Parametric)
- Rapid Prototyping (Additive Manufacturing)
- Fundamental of Tool & Dies
- 3D Scanning & 3D Printing
- Entrepreneurship, Course - Work : Project

Duration : 24 weeks (8 hrs / day)

Course Fees : Rs. 40,000/-

#### B.2 i Advance Diploma in Machine Maintenance & Automation NSQF LEVEL- 6

- Electrical Hardware Control, Electrical Machines
- Pneumatics & Hydraulics
- Machine Maintenance, PLC, SCADA & HMI
- Electrical CAD
- Communication Skill, Project Work

Duration : 24 weeks (8 hrs / day)

Course Fees : Rs. 40,000/-

#### B.2 h Advance Diploma in Structural Design & Analysis NSQF LEVEL- 6

- Auto CAD (Civil), Engineering Drawing
- Revit Architecture, Staad Pro
- 3Ds Max, Total Station
- SOM, Estimating & Costing
- Adobe Photoshop, Auto Level, MS Office
- Soft Skill, Project Work

Duration : 24 weeks (8 hrs / day)

Course Fees : Rs. 40,000/-



Note : New batches will be started from First Monday of every month  
Institute reserves right to incorporate changes in course content, duration, intake capacity,  
no. of batches & course fee without prior notice.



## B.3 : For BE / DIPLOMA / ITI (Part Time Courses for Industrial Professionals only)

### B.3 a Certificate Course in Mechatronics

- Applied Pneumatics
- Applied Hydraulics
- PLC Programming
- Mechatronics Technology
- Project Work

Duration : 24 Weeks (4 hrs / day)  
Course Fees : Rs. 25,000/-

### B.3 b Certificate Course in VLSI And Embedded System Design

- Dsch, CMOS Design, Layout Design (11 wind 3)
- VHDL, XILINX, VERILOG, PLD(FPGA & CPLD)
- Embedded System, 'C' language, 8051
- PIC & ARM7(LPC 2148) Microcontroller
- Project Work

Duration : 24 Weeks (4 hrs / day)  
Course Fees : Rs. 25,000/-

### B.3 c Certificate Course in Tool Design & CAD/CAM

- Auto CAD, Master CAM,
- Catia(CAD), UG (CAD/CAM)
- Design of Jigs and Fixtures,
- Press Tools, Moulds, Die Casting Dies
- CNC Programming
- Project Work

Duration : 48 weeks (4 hrs / day)  
Course Fees : Rs. 50,000/-

### B.3 d Certificate Course in 3D Printing & Reverse Engineering

- Auto CAD
- Solid Works
- 3D Printing
- 3D Scanning
- Project Work

Duration : 24 weeks (4 hrs / day)  
Course Fees : Rs. 25,000/-



### B.3 e Certificate Course in Tool Design

- Auto CAD
- Design of Jigs and Fixtures
- Design of Press Tools
- Design of Moulds
- Design of Die Casting Dies
- Project Work

Duration : 24 weeks (4 hrs / day)  
Course Fees : Rs. 25,000/-

### B.3 f Certificate Course in CAD/CAM

- Auto CAD, Catia(CAD)
- Master CAM(CAD/CAM)
- UG(CAD/CAM)
- CNC Programming
- Project Work

Duration : 24 weeks (4 hrs / day)  
Course Fees : Rs. 25,000/-

### B.3 g Certificate Course in Product Design

- CAD (Auto CAD, Solid Works)
- DelCAM
- RP & RE, Tool Design
- Project Work

Duration : 24 weeks (4 hrs / day)  
Course Fees : Rs. 25,000/-



## B.4 : For 12<sup>th</sup> Passout / B.Sc. Graduates / ITI (Appeared)

### B.4 a Advance Certificate Course in Inspection & Quality Control NSQF LEVEL-5

- Engineering Drawing, Engineering Metrology
- CAD (Auto CAD & Unigraphics NX)
- Workshop Calculation
- Total Quality Management, Inspection (CMM)
- Projects

Duration : 24 Weeks (8 hrs / day)  
Course Fees : Rs. 30,000/-

## B.5 : For SSC Passouts

### B.5 a Certificate Course in Machine Operations - WIRE CUT & EDM

- Workshop Technology, Blue Print Reading
- Engg. Metrology, Workshop Practice (Lathe & Milling)
- CNC Programming/ Machining (Wire Cut & EDM)
- Live Projects - CNC Machining

Duration : 24 Weeks (8 hrs / day)  
Course Fees : Rs. 20,000/-

### B.5 b Certificate Course in CNC Machine Operations - LATHE NSQF LEVEL-4

- Workshop Technology, Blue Print Reading
- Engineering Metrology, Workshop Practice (Lathe)
- CNC Programming (Lathe), CNC Machining (Lathe)
- Live Projects - CNC Machining

Duration : 24 Weeks (8 hrs / day)  
Course Fees : Rs. 20,000/-

### B.5 c Certificate Course in Machine Operations - MILLING NSQF LEVEL-4

- Workshop Technology, Blue Print Reading
- Engg. Metrology, Workshop Practice (Milling)
- CNC Programming (Milling), CNC Machining (Milling)
- Live Projects - CNC Machining

Duration : 24 Weeks (8 hrs / day)  
Course Fees : Rs. 20,000/-



Note : New batches will be started from First Monday of every month  
Institute reserves right to incorporate changes in course content, duration, intake capacity, no. of batches & course fee without prior notice.



For Students / Institutes Professionals & Industrial Professionals

## C.1 CAD / CAM / CAE (Mechanical / Production / Automobile Engineering or Equivalent)



**C.1 a Auto CAD (Mech)**

- Creating Objects
- Editing Objects
- Layers, Colours & Line Types
- Dimensioning & Tolerancing
- Blocks, Attributes & X-REF
- Layout, Plotting & Printing
- 3D Modeling

Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 4,500/-

**C.1 b Collab CAD**

- Sketcher
- Part Design
- Surfacing
- Drafting
- Assembly
- 3D Modelling
- CAM Machining

Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 4,500/-

**C.1 c Solidworks (CAD)**

- Sketcher
- Part Design
- Surfacing
- Drafting
- Assembly
- Simulation

Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 5,500/-

**C.1 d Catia (CAD)**

- Introduction to CATIA
- Sketcher Workbench
- Part Design Workbench
- Wire Frame & Surface Design
- Assembly Design Workbench
- Generative & Interactive Drafting

Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

**C.1 e Creo Parametric (CAD)**

- Introduction to CREO PARAMETRIC
- Fundamentals of CREO PARAMETRIC
- Sketcher
- Part Modeling
- Pro Surface
- Assembly Modeling
- Detailing

Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

**C.1 f I-Deas (CAD)**

- Introduction
- Interface & Coordinate System
- Curves
- Sketcher
- Featured Based Modeling
- Assembly & Details
- Drafting
- Free Form Features

Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 11,000/-

**C.1 g Unigraphics (CAD)**

- Introduction
- Interface & Coordinate System
- Curves
- Sketcher
- Featured Based Modeling
- Assembly & Details
- Drafting
- Free Form Features

Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 11,000/-

**C.1 h Unigraphics (CAM)**

- Introduction
- Overview of Mfg. Applications
- Point To point Machining
- Planner Turning & Milling
- Cavity Milling
- Prog. Generation & Transfer to M/C

Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 11,000/-



**C.1 i Master CAM (CAD / CAM)**

- 2D Drafting
- Wire Frame Modeling
- Surface Modeling
- Tool Path Generation
- Transfer to Machine
- Post Processing

Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 5,500/-

**C.1 j Cimatron (CAD)**

- Sketcher
- Navigation, Datum, Analyze and file management.
- Part (Curves, Faces and Solid) Design
- Assembly Design
- Catalogs
- Drafting (Part and Assembly)

Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

**C.1 k Delcam (CAD / CAM)**

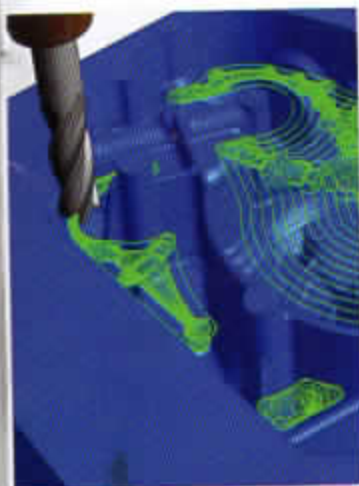
- 2D Drafting
- Wire Frame Modeling
- Surface Modeling
- Tool Path Generation
- Transfer To Machine / Post Processing

Duration : 96 Hrs. (4 weeks, 4 hrs / day)  
Course Fees : Rs. 5,500/-

**C.1 l Delcam - 5 Axis Machining**

- 2D Drafting
- Wire Frame Modeling
- Surface Modeling
- Tool Path Generation (5 Axis Machining)
- Transfer To Machine / Post Processing

Duration : 96 Hrs. (4 weeks, 4 hrs / day)  
Course Fees : Rs. 9,000/-



Note : New batches will be started from First & Third Monday of every month  
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### C.1 m Delcam Art CAM

- Introduction to Art CAM
- Art CAM Pro Design
- 2D Vector Design
- 3D Design
- Profile Generation
- Machining

Duration : 72 Hrs (3 weeks, 4hrs / day)  
Course Fees : Rs. 8,000/-

### C.1 o Ansys Basic (APDL)

- Introduction to FEA
- Ansys Basics
- Different types of Interfaces
- Structural Analysis
- Thermal Analysis
- Model Analysis

Duration : 72 Hrs (3 weeks, 4hrs / day)  
Course Fees : Rs. 9,000/-

### C.1 n Solid Edge

- Introduction to Solid Edge
- Sketcher
- Part Design
- Surfacing
- Drafting
- Assembly

Duration : 72 Hrs (3 weeks, 4hrs / day)  
Course Fees : Rs. 5,500/-

### C.1 p Ansys Workbench

- Introduction to workbench
- Mechanical Basic, Meshing
- Static Structural
- Modal Analysis, Linear Buckling
- Thermal Analysis
- Post Processing

Duration : 72 Hrs. (3 weeks, 4hrs / day)  
Course Fees : Rs. 9,000/-



### C.1 q Ansys (CFD)

- Introduction to CFD, CFX & FLUENT, Design Modeler, Meshing, Turbulent Models,
- Boundary Condition Specifications
- Solver Solution Methods & Hydrodynamic, Aerodynamic, Heat Transfer / Thermal Analysis
- Int. & Ext. Flows, Post-Processing / Results

Duration : 72 Hrs (3 weeks, 4hrs / day)  
Course Fees : Rs. 11,000/-

### C.1 r Hypermesh (CAE)

- Introduction to FEA, Hypermesh
- Geometry Creation
- 2D Meshing, 3D Meshing
- Mesh Analysis
- Optistruct
- Introduction to Hyperform / Hyper - View

Duration : 72 Hrs (3 weeks, 4hrs / day)  
Course Fees : Rs. 9,000/-

### C.1 s Moldex - 3D (CAE)

- Introduction & History of CAE
- Import cavity
- Building runner system model
- Meshing feed system
- Creating Molding Process & Analysis
- Flow Pack, Warp, Cooling Results

Duration : 72 Hrs (3 weeks, 4hrs / day)  
Course Fees : Rs. 8,000/-

### C.1 t Hyperform (CAE)

- Introduction to FEA, Hypermesh
- Geometry Creation
- One Step Analysis
- Incremental
- Visualization by Hyperview
- Solving through Radioss Solver

Duration : 72 Hrs (3 weeks, 4hrs / day)  
Course Fees : Rs. 9,000/-

### C.1 u Product Design

- Fundamentals of Design, Sketching & Optimizing
- Preparing CAD Geometry, Minimizing Mass
- Running a Baseline Analysis, Simplifying Geometry
- Additive Manufacturing Technology
- Fundamentals of Additive Mfg. & Application

Duration : 72 Hrs (3 weeks, 4hrs / day)  
Course Fees : Rs. 10,000/-

### C.1 v Product Design Validation

- Fundamentals of Design Validation
- Theory of Machines and Mechanisms
- Finite Element Analysis - Mesh Generation
- Linear Static and Heat Transfer Analysis
- Dynamic, Nonlinear Analysis
- Structural Optimization

Duration : 72 Hrs (3 weeks, 4hrs / day)  
Course Fees : Rs. 10,000/-

### C.1 w Flow And Thermal Analysis Using Hyperworks

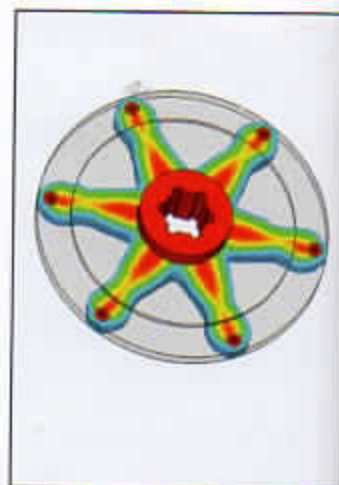
- Fundamentals of Fluid Mechanics
- Introduction to Heat Transfer
- Types of Flows
- Introduction to Computational fluid Dynamics
- Pipe Flow, Conjugate Heat Transfer, workshops

Duration : 72 Hrs (3 weeks, 4hrs / day)  
Course Fees : Rs. 10,000/-

### C.1 x Tooling Simulation Using Hyperworks

- Fundamentals of Manufacturing
- Sheet metal Forming Simulation
- Extrusion Process Simulation
- Modelling Dies with Symmetry Planes
- Tool Deflection
- Tool Deflection Analysis, Shape Optimization

Duration : 72 Hrs (3 weeks, 4hrs / day)  
Course Fees : Rs. 10,000/-



Note : New batches will be started from First & Third Monday of every month  
Institute reserves right to incorporate changes in course content, duration, intake capacity,  
no. of batches & course fee without prior notice.



## C.2. CAD/CAE (CIVIL ENGINEERING / ARCHITECTURAL ENGINEERING)

## C.2 a AUTO CAD (CIVIL)

- Creating Objects
  - Editing Objects
  - Layers, Colours & Line Types
  - Dimensioning & Tolerancing
  - Blocks, Attributes & X-REF
  - Layout, Plotting & Printing
  - Working in 3D Space
- Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 4,500/-

## C.2 c REVIT ARCHITECTURE

- Revit Auto Desk Architecture
  - Getting Started Principles And Concepts
  - Working With Project And Elements
  - Working With Projects Views And Work Planes
  - Working With Basic Building Components
  - Working With Site Design
  - Working With Construction Documents
- Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 9,000/-

## C.2 e CIVIL SURVEY USING TOTAL STATION

- Introduction
  - Station Setup
  - Stake Out
  - Program
  - Data Downloading
- Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 7,000/-

## C.2 b STAAD PRO

- Introduction To Staad Pro
  - Analysis Of Rc Structure & Power Transmission Tower
  - Application Of Loading Condition
  - Method For Designing Shear Wall
  - Design Of Slab
- Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 9,000/-

## C.2 d 3DS MAX

- Introduction of 3ds Max
  - Getting Started (principle & Concept)
  - Creating objects of Layer And Walls
  - Working With Primitives Modifiers & Reactors In 3ds Max
  - Modeling In 3ds Max
  - Basics of Lights And Materials And Camera
  - Animation of 3ds Max, Exploring Rendering
  - Creating Surface Model
- Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 9,000/-

## C.3 CNC Programming / CNC Machining (Mechanical / Production / Automobile Engineering or Equivalent)

## C.3 a CNC Programming - Lathe (ISO/FANUC/SINUMERIK)

- Introduction to CNC Tech.
  - Geo. Basics for CNC M/c
  - Tech. Basics for CNC M/c
  - CNC Programming
- Duration : 72 Hrs. (3 weeks, 4 hrs / day)  
Course Fees : Rs. 6,500/-

## C.3 b CNC Programming - Milling (ISO/FANUC/SINUMERIK/HADENHEIN)

- Introduction to CNC Tech.
  - Geo. Basics for CNC M/c
  - Tech. Basics for CNC M/c
  - CNC Programming
- Duration : 72 Hrs. (3 weeks, 4 hrs / day)  
Course Fees : Rs. 6,500/-

## C.3 c CNC Machining - Lathe

- Preparation of Part Geometry
  - Preparing & Setting for Operation
  - Setup of Zero Pt. Displacement
  - Tool Offset Values
  - Optimizing Tool Path
  - Execution of Part Program
- Duration : 72 Hrs. (3 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

## C.3 e CNC Machining - Wire-cut

- Programming of the Part Program
  - Preparation Tech. for Operation
  - Setting up of WEDM Machine
  - Simulation with Dry Run
  - Execution of the part program
- Duration : 72 Hrs. (3 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

## C.3 d CNC Machining - Milling

- Programming for CNC Milling
  - Preparing & Setting for Operation
  - Setup of Tools
  - Radial & Axial Offset Values
  - Test Run Simulation
  - Execution of the Part Program
- Duration : 72 Hrs. (3 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

## C.3 f CNC Machining - EDM

- Prog. of the Part Program
  - Preparation Tech. for Operation
  - Setting up of EDM Machine
  - Simulation with Dry Run
  - Execution of the part program
- Duration : 72 Hrs. (3 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

Note : New batches will be started from First & Third Monday of every month  
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### C.4 TOOL DESIGN (Mechanical / Production / Automobile Engineering or Equivalent)

#### C.4 a Press Tool Design using Cimatron

- Blank Dev. Simple to complex parts
- Transfer and Progressive Nesting
- Compound Tool Design
- Progressive 3D Tool Design
- Motion Analysis, BOM and Drafting (Part and Assembly)

Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 11,000/-

#### C.4 b Moulds Design using Cimatron

- Core Cavity Extraction
- Inserts management
- Electrode management
- 3D Mould Design
- Motion Analysis, BOM and Drafting (Part & Assembly)

Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 11,000/-

#### C.4 c Die Casting Dies Design using Cimatron

- Cover and Ejector Die design
- Electrode management
- 3D Die Casting Die
- Motion Analysis, BOM & Drafting (Part and Assembly)

Duration : 72 Hrs. (3 weeks, 4 hrs / day)  
Course Fees : Rs. 11,000/-

#### C.4 d Design of Jigs & Fixtures

- Introduction
- Elements & Their Function
- Jigs & Fixtures & Their Classification
- Tool Design Parameters
- Design of Jigs & Fixtures
- Materials For Jigs & Fixtures Elements

Duration : 48 Hrs. (2 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

#### C.4 e Design of Gauges

- Introduction
- Elements & Their Classification
- Gauges & Their Classification
- Tool Design Parameters
- Design of Gauges
- Materials for Gauge Elements

Duration : 48 Hrs (2 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

#### C.4 f Design of Cutting Tools

- Introduction
- Tool Geometry
- Metal Cutting Theory
- Design of Cutting Tools
- Materials For Cutting Tools

Duration : 48 Hrs (2 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

#### C.4 g Press Tool Design & Simulation using Hyperform

- Introduction to Press Tool
- Elements & their functions
- Press Tool Operation & Classification
- Design Parameters
- Introduction to Hypermesh & Hyperform
- Hyperform Solver
- Simulation using Optribstruct

Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 11,000/-

#### C.4 h Mould Design & Simulation Using MOLDEX-3D

- Introduction & History of CAE
- Import Model
- Building feed system using Adviser
- Building Cooling system
- CFCPW
- Flow pack, Warp, Cooling Results

Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 10,000/-

#### C.4 i Casting with ADSTEFAN

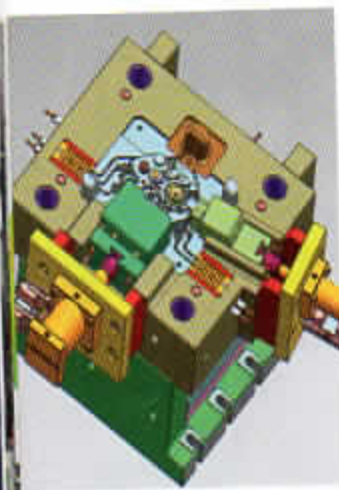
- Introduction to Die Casting Design
- Elements & their functions
- Die Casting Operation & Classification
- Design Parameters
- Minimizing Defects
- Design Improvement
- Cost Reduction

Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 10,000/-

#### C.4 j Advance Mould Design & Simulation Using MOLDEX - 3D

- Introduction & History of CAE
- Hot Runner Injection Mould
- MCM-Multi Component Moulding
- Metallic Inserts Moulding
- CFCPW
- Flow pack, Warp, Cooling Results

Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 10,000/-



### C.5 GENERAL ENGINEERING (Mechanical / Production / Automobile Engineering or Equivalent)

#### C.5 a Geometric Dim. & Tolerances

- Introduction to GD & T
- GD & T Symbols & Ind. App.
- Classification
- Concept of Limits, Fits & Tolerances
- App. of Limits, Fits & Tolerances

Duration : 24 Hrs (1 week, 4 hrs / day)  
Course Fees : Rs. 4,500/-

#### C.5 b Metrology

- Introduction to Metrology
- Measurement - Equipment & Technique
- Linear, Angular, Profile
- Advance Measurement
- Practice On Measurement

Duration : 24 Hrs (1 week, 4 hrs / day)  
Course Fees : Rs. 4,500/-

#### C.5 c Basic Course in CMM

- Introduction
- Principle of Working
- Application & use

Duration : 24 Hrs (1 week, 4 hrs / day)  
Course Fees : Rs. 7,000/-

Note : New batches will be started from First & Third Monday of every month  
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## C.6 AUTOMATION

(Electrical / Electronics / Instrumentation / Computer / Mechanical or equivalent B.Sc. / M.Sc. Electronics / Computer Science)

**C.6 a Basic Pneumatics**

- Introduction
  - Fundamental Principles
  - Energy Supply Elements
  - Directional Control Valves
  - Circuit Design & Application
- Duration : 24 Hrs (1 week, 4 hrs / day)  
Course Fees : Rs. 3,500/-

**C.6 b Basic Hydraulics**

- Introduction
  - Fundamental Principles
  - Energy Supply elements
  - Directional Control Valves
  - Circuit Design & Application
- Duration : 24 Hrs (1 week, 4 hrs / day)  
Course Fees : Rs. 3,500/-

**C.6 c Electro Pneumatics**

- Introduction
  - Fundamental Principles
  - Energy Supply Elements
  - Directional Control Valves
  - Circuit Design & Application
- Duration : 24 Hrs (1 week, 4 hrs / day)  
Course Fees : Rs. 4,500/-

**C.6 d Electro Hydraulics**

- Introduction
  - Fundamental Principles
  - Energy Supply Elements
  - Directional Control Valves
  - Circuit Design & Application
- Duration : 24 Hrs (1 week, 4 hrs / day)  
Course Fees : Rs. 4,500/-

**C.6 e Advance Pneumatics**

- Introduction
  - Fundamental Principles
  - Energy Supply Elements
  - Directional Control Valves
  - Fundamentals of Control Engg.
  - Circuit Design & Application
- Duration : 24 Hrs (1 week, 4 hrs / day)  
Course Fees : Rs. 5,500/-

**C.6 f Electrical Cad (e Cad)**

- Autocad & Co-ordinate System
  - Array, Mirror, Copy, move
  - Inserting Components
  - Wire & Ladders, Trim, Parent-child Comp. Discussion
  - Multiple Wire Bus & Edit Component
  - Component Alignment, Attributes, Scoot, Move
- Duration : 72 Hrs (3 weeks, 4 hrs / day)  
Course Fees : Rs. 4,500/-

**C.6 g PLC Programming**

- Introduction of Ind. Automation
  - Details of PLC Hardware (SIEMENS)
  - Programming Languages
  - Downloading Program
  - Interfacing between PLC & Various Field Devices
- Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

**C.6 h Advance PLC**

- Introduction of Industrial Automation.
  - Details of PLC Hardware (siemens)
  - Concept of FB, FC & DB
  - Operations With Bit Logic, Jump, Math Functions
  - Totally Integrated Automation V13
  - Interfacing With Siemens S7-300 And S7-1500
- Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

**C.6 i SCADA**

- Introduction of Ind. Automation
  - Creating a New SCADA App.
  - Details of Process & Internal tags
  - Creating a Process control window with all Applications
- Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

**C.6 j VLSI**

- Introduction to VLSI
  - Implementation of Logic In Mosfet, In Front End Design
  - Back End Design, VHDL / VERILOG HDL
  - Live Practice: On Demo Boards
- Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

**C.6 k Embedded Systems**

- Introduction
  - Basics of Digital Electronics
  - Basics of 'C' Language
  - Test Equipment
  - Introduction To ARM7
  - LPC 2148 Programming
  - Internal Peripherals of LPC 2148
  - Live Practice: On Demo Boards
- Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

**C.6 l HMI**

- Introduction of HMI
  - Comparison Between SCADA & HMI
  - Communication of HMI with PLC
  - Creating & Editing Graphic Display With Animation
  - Database of Tags & Process Tags & Internal Tags
  - Application of Ladder Program on HMI
  - Moving object & Alarm System, Multiscreen Tasks
  - Working With online Trend Control
- Duration : 96 Hrs (4 weeks, 4 hrs / day)  
Course Fees : Rs. 8,000/-

Note : New batches will be started from First & Third Monday of every month  
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### C.6 m Sensors & Applications

- Temperature Sensor
- Light Sensor & Ir Sensor
- Pressure Sensor
- LVDT Coil & Load Cell
- Piezo Electric Sensor
- Gas Sensor & Alcohol Sensor

Duration : 48 Hrs (2 weeks, 4 hrs / day)

Course Fees : Rs. 5,500/-

### C.6 o 8051 Micro - Controller

- Basics of Digital Electronics
- Basics of 'C' Language
- Test Equipment
- Introduction To 8051
- 8051 Assembly/Embedded C Programming
- Internal Peripherals of 8051
- Live Practice On Demo Boards

Duration : 96Hrs (4 weeks, 4 hrs / day)

Course Fees : Rs. 8,000/-

### C.6 n Microprocessor Programming

- Introduction
- Instruction Set
- Assembly Language Programming
- Interfacing
- Programmable Peripheral Interface
- Live Practice: On Demo Boards

Duration : 96 Hrs (4 weeks, 4 hrs / day)

Course Fees : Rs. 8,000/-

### C.6 p Basic Mechatronics

- PLC Programming,
- Basic Pneumatics
- Electro Pneumatics,
- Mechatronics Projects Kits

Duration : 192 Hrs (8 weeks, 4 hrs / day)

Course Fees : Rs. 17,000/-

### C.6 q Ansys LF

- Introduction
- Maxwell Basic, Geometry Import
- Magnetostatic, EDDY Current Solver
- AC/DC Solver
- Mesh Linking
- Post Processing, Optimization

Duration : 72 Hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 9, 000/-

### C.6 r Ansys HFSS

- Introduction
- HFSS 3D Modeler, Design Setup
- Parallel Solve & HPC
- HFSS 3D Layout
- Electrostatic Discharge
- Post Processing

Duration : 72 Hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 9, 000/-

### C.6 s MATLAB

- Introduction
- Parallel Computing
- Control System Design & Analysis
- Signal Processing & Communication
- Test & Measurement
- Code Generation & Verification
- Application Database Connectivity & Reporting

Duration : 72 Hrs (3 weeks, 4 hrs / day)

Course Fees : Rs. 10,000/-

### C.6 t A C Drives

- Introduction to Drives
- Difference Between AC Drives & DC Drives
- Study of Various Kinds of Motor
- Application & Speed Control of Motor
- Introduction of Seimens G120 Drive
- Types of Operation & Interfacing with PLC

Duration : 48 Hrs (2 weeks, 4 hrs / day)

Course Fees : Rs.5,500/-

### C.6 u Robotics

- Introduction To Robotics
- Types of Robot
- Actuators & Drives System
- Programming of Robot
- Programming Using Teach box
- Programming Using Software

Duration : 72 Hrs (2 weeks, 4 hrs / day)

Course Fees : Rs. 5,000/-

### C.6 v Automation with Pneumatics Using PLC Basic, Electro & Advance Pneumatics

- Introduction
- Fundamental Principles
- Energy Supply Elements
- Directional Control Valves
- Fundamentals of Control Engineering
- Circuit Design & Application

#### PLC

- Introduction of Industrial Automation,
- Details of PLC Hardware (Siemens)
- Programming Languages
- Downloading Program
- Interfacing Between PLC & Various Field Devices.

Duration : 144 Hrs (6 weeks, 4 hrs / day)

Course Fees : Rs. 14,500/-

### C.6 w Automation with Hydraulics Using PLC Basic, Electro & Advance Hydraulics

- Introduction
- Fundamental Principles
- Energy Supply Elements
- Directional Control Valves
- Fundamentals of Control Engineering
- Circuit Design & Application

#### PLC

- Introduction of Industrial Automation
- Details of PLC Hardware (Siemens)
- Programming Languages
- Downloading Program
- Interfacing PLC & Various Field Devices.

Duration : 144 Hrs (6 weeks, 4 hrs / day)

Course Fees : Rs. 14,500/-



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## C-7. 3D PRINTING / SCANNING

### C.7 A 3D Printing (Rapid Prototyping)

- Additive Technology & Its Applications
- Additive Manufacturing SLA, SLS, FDM
- Preparing The Model For Rapid Manufacturing
- Materials & Optimizing Manufacturing
- Different Materials & Their Properties
- Adjustment of Parameters
- Time Estimating The Production Time of The Job
- Assembly of The FDM System

Duration : 72 Hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 10,000/-

### C.7 c Geomagic Scanning

- Basic Modeling Concept
- Knab Modeling without Mesh
- End to End Modeling, Accuracy Analyser
- Modeling Feature, Auto Surface v/s Design

Duration : 72 Hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 10,000/-

### C.7 B 3D Scanning (Reverse Engineering)

- Scanning Technology
- Different Type of Scanners
- Scanning For Different Type of Objects
- Preparing The Object For Scanning
- Capturing The Cloud Data For Small & Large Objects
- Synthesizing The Model With Overlap
- Modifying The Model To Suit The Design Requirement
- Printing The Model For Checking Form & Fit
- Design Verification Tools

Duration : 72hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 10,000/-

### C.7 d Rapid Works

- Basic CAD Model
- Assistance to Scan View
- Converting CAD Model for printing

Duration : 72 Hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 10,000/-



## C.8 WELDING

### C.8 a Gas Welding

- Introduction to Gas Welding
- Filler Rods
- Gas Cutting operations
- Gas Welding Process

Duration : 96 Hrs. (4 weeks, 4hrs / day)

Course Fees : Rs. 5,500/-

### C.8 c MIG/MAG Welding

- Introduction to MIG/MAG Welding
- Welding Positions
- MIG/MAG Welding Process

Duration : 96 Hrs. (4 weeks, 4hrs / day)

Course Fees : Rs. 11,000/-

### C.8 e Advance Welding

- MIG Welding
- MAG Welding
- TIG Welding

Duration : 288 Hrs. (12 weeks, 4 hrs / day)

Course Fees : Rs. 22,000/-

### C.8 b ARC Welding

- Introduction to ARC Welding
- Introduction Diffrent Welding Electrodes
- Introduction Types of welding machines
- Arc Welding Process

Duration : 96 Hrs. (4 weeks, 4hrs / day)

Course Fees : Rs. 5,500/-

### C.8 d TIG Welding

- Introduction to TIG Welding
- Welding Positions
- TIG Welding Process

Duration : 96 Hrs. (4 weeks, 4hrs / day)

Course Fees : Rs. 11,000/-

### C.8 f Basic Welding

- Conventional Workshop,
- Arc Welding
- Gas Welding

Duration : 288 Hrs. (12 weeks, 4 hrs / day)

Course Fees : Rs. 22,000/-



## C-9. REPAIRS & MAINTENANCE OF ELECTRICAL & ELECTRONIC GADGETS

### C.9 a Hand Held Products (HHP)

(Tablets, Mobile Phone, Smart Phone etc.)

- Introduction to Technology
- Working Principles
- Structures
- Types of Technologies
- Assembly & Disassembly
- Repair, Maint. & Trouble Shooting

Duration : 288 Hrs. (12 weeks, 8 hrs / day)

Course Fees : Rs. 15,000/-

### C.9 b Audio Video (AV)

(LED, LCD, Plasma TV, Home Theater)

- Introduction to Technology
- Working Principles
- Structures
- Types of Technologies
- Assembly & Disassembly
- Repair, Maint. & Trouble Shooting

Duration : 288 Hrs. (12 weeks, 8 hrs / day)

Course Fees : Rs. 15,000/-

### C.9 d Room Air Conditioner & Home Appliances (RACHA)

(Refrigerator, Washing Machine, Oven etc.)

- Introduction to Technology
- Working Principles
- Structures
- Types of Technologies
- Assembly & Disassembly
- Repair, Maint. & Trouble Shooting

Duration : 288 hrs. (12 weeks, 4 hrs / day)

Course Fees : Rs. 20,000/-



Note : New batches will be started from First & Third Monday of every month  
Institute reserves right to incorporate changes in course content, duration, intake capacity,  
no. of batches & course fee without prior notice.



### C-10. COMPUTER HARDWARE MAINTENANCE & ADVANCE NETWORKING

#### C.10 a Adv. Diploma In Comp. Hardware And Network Management (ADCHNM) - NSQF Level 6

- Power Supply, PC Architecture
- Software Installation, Upgradation & Maintenance
- Network Essential, Setup & Management
- Network Management & Server Configuration
- LINUX Management & Network Configuration
- Basic Electronics, Office Package, Communication Skill

Duration : 780 Hrs. (24 weeks)

Course Fees : Rs. 25,000/-

#### C.10 b CISCO Certified Network Associate (CCNA)

- Introduction to Wide Area Network
- Inter Network Operating System
- IP Routing (Static & Dynamic),
- LAN Switching,
- IPV4, IPV6,
- STP, PVSTP & RSTP,

Duration : 144 Hrs. (12 weeks, 2 hrs / day)

Course Fees : Rs. 16,000/-

#### C.10 c Computer Hardware Maint. & Networking

- Introduction to Operating Systems
- Computer Peripherals, Memory & Storage
- Assembly and Trouble Shooting
- Introduction to Networking

Duration : 144 Hrs. (12 weeks, 2 hrs / day)

Course Fees : Rs. 12,000/-

#### C.10 d Advanced Networking

- Applications Software Installation (MS Office, Photoshop, Tally, Antivirus etc.
- Installation of Operating System (Windows XP, Vista, Win 7, Win 8, Server 2003, 2008 R2, 2012, 2012 R2)

Duration : 144 Hrs. (12 weeks, 2 hrs / day)

Course Fees : Rs. 12,000/-



#### C.10 e Training Program for MCSE/MCSA Server 2012

- Installing and Configuring & Administering Windows Server 2012 (70-410), 2012 (70-411) Adv. Windows Server 2012 (70-412)
- Design & Implementing a Server Infrastructure (70-413)
- Implementing an Advance Server Infrastructure (70-414)
- Implementing a Desktop Infrastructure & Application (70-415) Environments (70-416)

Duration : 144 Hrs. (12 weeks, 2 hrs / day)

Course Fees : Rs. 12,000/-

#### C.10 f C Programming

- Introduction to C
- Getting Started & Environmental Setup
- Program Structure In C
- Basic Syntax In C
- Data Types, Variables & Operators
- Functions, Decision Making
- Loops, Array & Pointers

Duration : 90 Hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 4,000/-

#### C.10 g VB .Net

- Introduction, Getting Started
- Visual Basic .net & .net Framework Elements of Visual Basic .net
- Programming In Visual Basic .net
- Functions, Built In Dialogue Boxes, Menus And Toolbar
- Database Connectivity

Duration : 90 Hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 8,000/-

#### C.10 h C++

- Beginning With C++, Tokens, Expressions & Control Structures
- Functions In C++, Classes And Objects
- Data Encapsulation & Abstraction
- Inheritance, Polymorphism, Dynamic Binding, Message Passing, Constructor, Destructor

Duration : 90 Hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 5,000/-

#### C.10 i ASP .Net

- Introduction to .net
- Object Oriented Programming
- Graphical User Interface (win Forms)
- Database Connectivity
- Asp.net

Duration : 90 Hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 8,000/-

#### C.10 j SQL

- Introduction To Structured Query Language (SQL)
- Advanced SQL
- Database Concepts
- Design Concepts
- Adv. Design And Implementation
- Adv. Database Concepts

Duration : 90 Hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 7,000/-

#### C.10 k JAVA

- Introduction to Java, Getting Started
- Environmental Setup
- Basic Syntax
- Objects & Classes
- Basic Datatypes, Opt. & Variables
- Modifiers, Decision Making, Loops

Duration : 90 Hrs. (3 weeks, 4 hrs / day)

Course Fees : Rs. 7,000/-



**Note :** New batches will be started from First & Third Monday of every month  
Institute reserves right to incorporate changes in course content, duration, intake capacity, no. of batches & course fee without prior notice.



**CUSTOM DESIGNED / TAILOR MADE COURSES**  
**COURSES FOR FOREIGN NATIONALS**

**SPECIAL TRAINING PROGRAMME DESIGNED & CONDUCTED : FOR FOREIGN NATIONALS**

SR.NO.	COURSE	DURATION
1	ADVANCE COURSE IN TOOL MANUFACTURING & CAD / CAM	24 WEEKS
2	ADVANCE COURSE IN CNC MACHINING (MILLING)	24 WEEKS
3	POST DIPLOMA IN TOOL DESIGN & MANUFACTURING	12 WEEKS
4	DIE & MOULD MFRG. TECHNOLOGY	06 WEEKS
5	ADVANCE COURSE IN TOOL DESIGN & MANUFACTURING	08 WEEKS
6	ADVANCE COURSE IN CNC MACHINING (WIRE CUT)	24 WEEKS
7	ADVANCE COURSE IN DIE & MOULD MANUFACTURING TECHNOLOGY	08 WEEKS
8	COURSE IN CNC PROGRAMMING & MACHINING	12 WEEKS

**FOR INDUSTRIAL PROFESSIONALS**

**SPECIAL TRAINING PROGRAMME DESIGNED & CONDUCTED : INDUSTRIAL PROFESSIONALS**

SR.NO.	COURSE	DURATION
1	INT. COURSE IN CAD / CAM / CAE	12 WEEKS
2	BASIC PRACTICES IN FORGING DIE MANUFACTURING	06 WEEKS
3	TOOL/DIE DESIGN & MANUFACTURING	02 WEEKS
4	CNC MILLING & DRILLING OPERATIONS	01 WEEKS
5	INTEGRATED COURSE IN CAD	04 WEEKS
6	CONVENTIONAL MACHINE OPERATIONS (GRINDING)	08 WEEKS
7	BASIC HYDRAULICS	01 WEEK
8	ELECTRO HYDRAULICS	01 WEEK
9	CONV. MACHINE OPERATIONS	08 WEEKS
10	BIW FIXTURE MANUFACTURING	02 WEEKS
11	CNC PROGRAMMING & MACHINING (VMC)	05 WEEKS
12	CNC LATHE & MILLING OPERATIONS	02 WEEKS
13	TOOL DESIGN	06 WEEKS
14	TOOL DESIGN BASICS (INJECTION MOULD DESIGN)	01 WEEK
15	BASIC PNEUMATICS	01 WEEK
16	ELECTRO PNEUMATICS	01 WEEK

**Note :** Institute reserves right to incorporate changes in course content, duration, intake capacity, no. of batches & course fee without prior notice.



## VACATION TRAINING PROGRAMMES FOR ENGINEERING STUDENTS

AREA	MODULE	COURSE	DURATION	REG. FEE	COURSE FEES	SUMMER STARTING DATES	WINTER STARTING DATES		
MECHANICAL / PRODUCTION / AUTOMOBILE ENGINEERING OR EQUIVALENT	CAD	AUTOCAD	15 DAYS ( 5 HRS/DAY)	REGISTRATION FEE OF RS.300/- APPLICABLE TO ALL CANDIDATES	₹ 4,500/-	24/04/2017	06/11/2017		
		SOLIDWORKS	15 DAYS ( 5 HRS/DAY)		₹ 5,500/-				
		SOLIDEDGE	15 DAYS ( 5 HRS/DAY)		₹ 5,500/-				
		CATIA	15 DAYS ( 6 HRS/DAY)		₹ 8,000/-				
		CREO PARAMETRIC	15 DAYS ( 6 HRS/DAY)		₹ 8,000/-				
		UNIGRAPHICS	15 DAYS ( 6 HRS/DAY)		₹ 11,000/-				
	CAM	MASTERCAM	15 DAYS ( 5 HRS/DAY)		₹ 5,500/-			12/05/2017	23/11/2017
		DELCAM	15 DAYS ( 5 HRS/DAY)		₹ 5,500/-			30/05/2017	11/12/2017
		UNIGRAPHICS (CAM)	15 DAYS ( 6 HRS/DAY)		₹ 11,000/-			16/06/2017	29/12/2017
	CAE	ANSYS	15 DAYS ( 5 HRS/DAY)		₹ 9,000/-			05/07/2017	16/01/2018
		HYPERMESH	15 DAYS ( 5 HRS/DAY)		₹ 9,000/-			22/07/2017	02/02/2018
		CFD USING ANSYS FULENT / CFX	15 DAYS ( 5 HRS/DAY)		₹ 11,000/-				
	CNC PROGRAMMING MACHINING	CNC PROGRAMMING (LATHE/MILLING - ANY ONE)	15 DAYS ( 5 HRS/DAY)		₹ 6,500/-				
		CNC MACHINING (LATHE/MILLING / WIRE CUT / EDM - ANY ONE)	15 DAYS ( 5 HRS/DAY)		₹ 8,000/-				
3D PRINTING & SCANNING	3D SCANNING (REVERSE ENGINEERING)	15 DAYS ( 5 HRS/DAY)	₹ 10,000/-						
	3D PRINTING (RAPID PROTOTYPING)	15 DAYS ( 5 HRS/DAY)	₹ 10,000/-						
CIVIL / ARCHITECTURAL ENGINEERING	CAD	AUTO CAD CIVIL	15 DAYS ( 5 HRS/DAY)	₹ 4,500/-	24/04/2017	06/11/2017			
		3DS-MAX	15 DAYS ( 5 HRS/DAY)	₹ 9,000/-	12/05/2017	23/11/2017			
		REVIT ARCHITECTURE	15 DAYS ( 5 HRS/DAY)	₹ 9,000/-	30/05/2017	11/12/2017			
	CAE	STAAD PRO	15 DAYS ( 5 HRS/DAY)	₹ 9,000/-	16/06/2017	29/12/2017			
				₹ 9,000/-	05/07/2017	16/01/2018			
	SURVEYING	CIVIL SURVEYING USING TOTAL STATION	15 DAYS ( 4 HRS/DAY)	₹ 7,000/-	22/07/2017	02/02/2018			
ELECTRICAL / ELECTRONICS / INSTRUMENTATION / COMPUTER / MECHANICAL ENGINEERING OR EQUIVALENT B.Sc / M.Sc ELECTRONICS / COMPUTER SCIENCES	AUTOMATION	ELECTRICAL CAD	15 DAYS ( 5 HRS/DAY)	₹ 4,500/-	24/04/2017	06/11/2017			
		BASIC HYDRAULICS / PNEUMATICS - ANY ONE	6 DAYS ( 4 HRS/DAY)	₹ 3,500/-					
		ELECTRO HYDRAULICS / PNEUMATICS - ANY ONE	6 DAYS ( 4 HRS/DAY)	₹ 4,500/-					
		ADVANCE PNEUMATICS / HYDRAULICS- ANY ONE	6 DAYS ( 4 HRS/DAY)	₹ 5,500/-					
		PLC PROGRAMMING	15 DAYS ( 6 HRS/DAY)	₹ 8,000/-					
		ADVANCE PLC PROGRAMMING	15 DAYS ( 6 HRS/DAY)	₹ 8,000/-					
		SCADA	15 DAYS ( 6 HRS/DAY)	₹ 8,000/-					
		HMI	15 DAYS ( 6 HRS/DAY)	₹ 8,000/-					
		MICRO-PROCESSOR PROGRAMMING	15 DAYS ( 6 HRS/DAY)	₹ 8,000/-					
		8051 MICRO CONTROLLER	15 DAYS ( 6 HRS/DAY)	₹ 8,000/-					
		EMBEDDED SYSTEMS	15 DAYS ( 6 HRS/DAY)	₹ 8,000/-					
		VLSI	15 DAYS ( 6 HRS/DAY)	₹ 8,000/-					
		SENSORS AND APPLICATIONS	12 DAYS ( 4 HRS/DAY)	₹ 5,500/-					
		AC DRIVES	12 DAYS ( 4 HRS/DAY)	₹ 5,500/-					
		MATLAB	15 DAYS ( 6 HRS/DAY)	₹ 10,000/-					
		AUTOMATION WITH PNEUMATICS USING PLC	24 DAYS ( 6 HRS/DAY)	₹ 14,500/-					
		BASIC MECHATRONICS	30 DAYS ( 6 HRS/DAY)	₹ 17,000/-					
				₹ 4,000/-					
		COMPUTER SCIENCE / IT ENGINEERING - ANY GRADUATE	COMPUTER APPLICATIONS	C PROGRAMMING			15 DAYS ( 4 HRS/DAY)	₹ 5,000/-	24/04/2017
	C++ PROGRAMMING			15 DAYS ( 4 HRS/DAY)	₹ 5,000/-	12/05/2017	23/11/2017		
JAVA	15 DAYS ( 4 HRS/DAY)			₹ 7,000/-	30/05/2017	11/12/2017			
DOT NET	15 DAYS ( 4 HRS/DAY)			₹ 8,000/-	16/06/2017	29/12/2017			
COMPUTER HARDWARE MAINTENANCE AND NETWORKING	24 DAYS ( 6 HRS/DAY)			₹ 12,000/-	05/07/2017	16/01/2018			
CCNA	24 DAYS ( 6 HRS/DAY)			₹ 16,000/-	22/07/2017	02/02/2018			

REGISTRATION FEE OF RS.300/- APPLICABLE TO ALL CANDIDATES



# INDO GERMAN TOOL ROOM, AURANGABAD EXTENSION CENTRE - MUMBAI / NAGPUR / PUNE

TRAINING PROGRAMMES 2017-18

## LONG TERM COURSES

SR.NO.	NAME OF THE COURSE	FULL TIME/ PART TIME	HRS/ DAY	DURATION	COURSE COMMENCEMENT	COURSE FEE (Rs.)
1	Post Graduate Diploma in Tool Design & CAD/CAM NSQF Level - 8	FT	8	18 Months	Note: New Batch will be started from First Monday of January, April, July & October of Calendar Year	1,05,000/-
2	Post Diploma in Tool Design & CAD/CAM NSQF Level - 6	FT	8	12 Months		70,000/-
3	Post Diploma in Mechatronics NSQF Level - 6	FT	8	12 Months		70,000/-
4	Advance Certificate Course in Tool Design & CAD/CAM NSQF Level - 5	FT	8	12 Months		70,000/-



## MEDIUM TERM COURSES

SR.NO.	NAME OF THE COURSE	FULL TIME/ PART TIME	HRS/ DAY	DURATION	COURSE COMMENCEMENT	COURSE FEE (Rs.)
1	Master Certificate Course in Tool Design NSQF Level - 6	FT	8	06 Months	Note : New Batch will be started from First Monday of every month	40,000/-
2	Master Certificate Course in Computer Aided Tool Engg. NSQF Level - 6	FT	8	06 Months		40,000/-
3	Master Certificate Course in CAD/CAM NSQF Level - 6	FT	8	06 Months		40,000/-
4	Master Certificate Course in Mechatronics NSQF Level - 6	FT	8	06 Months		40,000/-
5	Master Certificate Course in CNC Technology NSQF Level - 6	FT	8	06 Months		40,000/-
6	Master Certificate Course in Product Design NSQF Level - 6	FT	8	06 Months		40,000/-
7	Master Certificate Course in Industrial Automation/Robotics	FT	8	06 Months		40,000/-
8	Master Certificate Course in Structural Design & Analysis NSQF Level - 6	FT	8	06 Months		40,000/-
9	Advance Certificate Course in Inspection & Quality Control NSQF Level - 5	FT	8	06 Months		30,000/-
10	Certificate Course in Tool Design & CAD/CAM	PT	4	12 Months		50,000/-
11	Certificate Course in Tool Design	PT	4	06 Months		25,000/-
12	Certificate Course in CAD/CAM	PT	4	06 Months		25,000/-
13	Certificate Course in Product Design	PT	4	06 Months		25,000/-
14	Certificate Course in Mechatronics	PT	4	06 Months		25,000/-
15	Certificate Course in VLSI & Embedded System Design	PT	4	06 Months		25,000/-
16	Certificate Course in CNC Operations (Lathe/Milling/WEDM/EDM)	PT	8	06 Months		30,000/-

Note : Institute reserves right to incorporate changes in course content, duration, intake capacity, no. of batches & course fee without prior notice.





## INDO GERMAN TOOL ROOM, AURANGABAD EXTENSION CENTRE - MUMBAI / NAGPUR / PUNE

TRAINING PROGRAMMES 2017-18

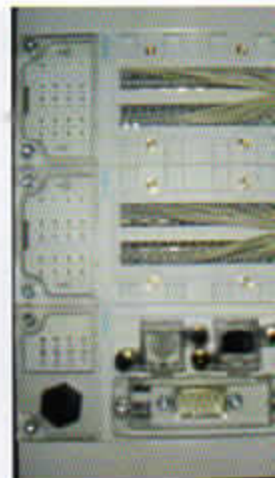
### SHORT TERM COURSES

SR.NO.	NAME OF THE COURSE	FULL TIME/ PART TIME	HRS/ DAY	DURATION	COURSE COMMENCEMENT	COURSE FEE (Rs.)
1	Auto CAD (MECH.)	PT	4	72 Hrs.	Note : New Batch will be started from First & Third Monday of every month	4,500/-
2	Auto CAD (CIVIL)	PT	4	72 Hrs.		4,500/-
3	Solidworks (CAD)	PT	4	72 Hrs.		5,500/-
4	Solid Edge (CAD)	PT	4	72 Hrs.		5,500/-
5	CATIA (CAD)	PT	4	96 Hrs.		8,000/-
6	CREO PARAMETRIC (CAD)	PT	4	96 Hrs.		8,000/-
7	Unigraphics (CAD)	PT	4	96 Hrs.		11,000/-
8	Unigraphics (CAM)	PT	4	96 Hrs.		11,000/-
9	Master CAM (CAD/CAM)	PT	4	72 Hrs.		5,500/-
10	DELCAM (CAD/CAM)	PT	4	72 Hrs.		5,500/-
11	DELCAM ART CAM	PT	4	72 Hrs.		8,000/-
12	ANSYS	PT	4	72 Hrs.		9,000/-
13	HYPERMESH	PT	4	72 Hrs.		9,000/-
14	GD & T	PT	4	24 Hrs.		4,500/-
15	CNC PROGRAMMING - MILLING	PT	4	72 Hrs.		6,500/-
16	CNC PROGRAMMING - LATHE	PT	4	72 Hrs.		6,500/-
17	PLC PROGRAMMING	PT	4	96 Hrs.		8,000/-
18	ADVANCE PLC PROGRAMMING	PT	4	96 Hrs.		8,000/-
19	SCADA	PT	4	96 Hrs.		8,000/-
20	VLSI	PT	4	96 Hrs.		8,000/-
21	EMBEDDED SYSTEM	PT	4	96 Hrs.		8,000/-
22	8051 MICRO CONTROLLER	PT	4	96 Hrs.		8,000/-
23	ELECTRICAL CAD	PT	4	72 Hrs.		4,500/-

Note : CNC Machining is only Available at extension Center Nagpur  
Institute reserves right to incorporate changes in course content, duration, intake capacity,  
no. of batches & course fee without prior notice.



	COURSE	DURATION	COURSE COMMENCEMENT
LONG TERM COURSES	Advance Diploma in Tool & Die Making	4 YEARS	New Batch Will Be Started From First Monday of August. Every year
	Diploma in Mechatronics	3 YEARS	
	Certificate Course in Machinist (Tool Room) NSQF Level - 5	2 YEARS	
	Post Graduate Diploma in Tool Design & CAD / CAM NSQF Level - 8	1.5 YEARS	
	Post Graduate Diploma in Mechanical Product Design NSQF Level - 8	1.5 YEARS	New Batch Will Be Started From First Monday of January, April, July & October. Every year
	Post Graduate Diploma in Mechatronics NSQF Level - 8	1.5 YEARS	
	Post Diploma in Tool Design & CAD / CAM NSQF Level - 6	1 YEAR	
	Post Diploma in Tool & Die Manufacturing NSQF Level - 6	1 YEAR	
	Post Diploma in Computer Aided Engineering NSQF Level - 6	1 YEAR	
	Post Diploma in Product Design	1 YEAR	
	Post Diploma in CNC Machine Maintenance NSQF Level - 6	1 YEAR	
	Post Diploma in Mechatronics NSQF Level - 6	1 YEAR	
	Post Diploma in VLSI & Embedded Systems	1 YEAR	
	Post Diploma in Industrial Automation / Robotics NSQF Level - 6	1 YEAR	
	Advance Certificate Course in Tool Design & CAD / CAM NSQF Level - 5	1 YEAR	New Batch Will Be Started From First Monday of February May, August & November Every year
	Advance Certificate Course in Tool & Die Manufacturing NSQF Level - 5	1 YEAR	
	Advance Certificate Course in CNC Machining NSQF Level - 5	1 YEAR	
	Advance Certificate Course in Machine Maintenance NSQF Level - 5	1 YEAR	
	Advance Certificate Course in Welding Technology NSQF Level - 5	1 YEAR	
	Certificate Course in CNC Turning & Milling NSQF Level - 4	1 YEAR	
	Certificate Course in Tool & Die Making NSQF Level - 4	1 YEAR	
	Certificate Course in Machine Tool & Welding Operations	1 YEAR	
	Certificate Course in Machine Maintenance & Welding Operations	1 YEAR	
	Certificate Course in Machine Operations - WIRE CUT & EDM	24 WEEKS	New Batch Will Be Started From First Monday of Every Month. Every year
MEDIUM TERM COURSES	Certificate Course in CNC Machine Operations - Lathe NSQF Level - 4	24 WEEKS	
	Certificate Course in CNC Machine Operations - Milling NSQF Level - 4	24 WEEKS	
	Advance Certificate Course in Inspection & Quality Control NSQF Level - 5	24 WEEKS	
	Master Certificate Course in Automation & Process Control NSQF Level - 7	24 WEEKS	
	Master Course in Computer Aided Tool Engineering NSQF Level - 6	24 WEEKS	
	Master Certificate Course in CAD/CAM NSQF Level - 6	24 WEEKS	
	Master Certificate Course in Tool Design NSQF Level - 6	24 WEEKS	
	Master Certificate Course in Welding Operations	24 WEEKS	
	Master Certificate Course in CNC Technology NSQF Level - 6	24 WEEKS	
	Master Certificate Course in Product Design NSQF Level - 6	24 WEEKS	
	Advance Diploma in Structural Design & Analysis NSQF Level - 6	24 WEEKS	
	Master Certificate Course in Mechatronics NSQF Level - 6	24 WEEKS	
	Advance Diploma in Machine Maintenance & Automation NSQF Level - 6	24 WEEKS	
	Certificate Course in CAD/CAM	24 WEEKS	
	Certificate Course in Product Design	24 WEEKS	
	Certificate Course in Tool Design	24 WEEKS	
	Certificate Course in Tool Design & CAD/CAM	48 WEEKS	
	Certificate Course in 3D Printing & Reverse Engineering	24 WEEKS	
	Certificate Course in VLSI & Embedded System Design	24 WEEKS	
	Certificate Course in Mechatronics	24 WEEKS	



Note: For Placement : Three months prior to course completion placement activity shall be started .

Selected Trainees will be relieved after course completion only.

IGTR makes efforts to contact & invite companies to conduct campus interviews, however no guarantee can be given for placement / employment.



## CUSTOM DESIGNED SPECIAL TRAINING PROGRAMMES CONDUCTED FOR : INDUSTRIES



- NATIONAL ACADEMY OF DEFENSE, PRODUCTION (NADP), NAGPUR.
- MAHATMA GANDHI INSTITUTE FOR RURAL INDUSTRIALIZATION, MAGANWADI,
- HINDUSTAN AERONAUTICS LTD., NASIK
- HINDUSTAN AERONAUTICS LTD., KORAPUT
- MARUTI UDYOG LTD., NEW DELHI
- L & T LTD., BARODA
- L & T LTD., CUTTING TOOL DIVISION, MUMBAI
- JK FILES LTD., MUMBAI
- M.A FORD & COMPANY LTD., MUMBAI
- MAHINDRA FORGINGS LTD, PUNE
- KIRLOSKAR PNEUMATICS CO. LTD, PUNE
- BHARAT FORGE LIMITED, PUNE
- TVS INDUSTRIES GROUP, CHENNAI
- GREAVES LTD., AURANGABAD
- PACKSYS GLOBAL (INDIA) PVT. LTD. MUMBAI.

- LOMBARDINI LTD., AURANGABAD
- JOHNSON & JOHNSON LTD., AURANGABAD
- FORBES LIMITED, AURANGABAD
- COSMO FILMS LIMITED, AURANGABAD
- VIDEOCON INDUSTRIES LTD, AURANGABAD
- VARROC ENGINEERING, AURANGABAD
- NRB BEARINGS LIMITED, AURANGABAD
- EATON TECHNOLOGIES, PUNE
- XYLEM INDUSTRIES, BADODA
- EPCOS LTD., NASHIK
- HIRSCHVOGEL KALYANI INDIA PVT. LTD., PUNE
- CANPACK (I) LTD, AURANGABAD.
- ENDURANCE TECH. PVT LTD., AURANGABAD
- INDIAN NAVAL ACADEMY, COCHIN.
- ACG WORLD WIDE, MUMBAI

## INSTITUTES



- SHIVAJI UNIVERSITY, KOLHAPUR
- BAMU UNIVERSITY, AURANGABAD
- GOVERNMENT COLLEGE OF ENGG., AURANGABAD
- GOVERNMENT COLLEGE OF ENGINEERING, JALGAON
- GOVERNMENT POLYTECHNIC, LATUR
- GOVERNMENT POLYTECHNIC, NASIK
- JNEC, COLLEGE OF ENGG., AURANGABAD
- MGM COLLEGE OF ENGINEERING, NANDED
- MGM POLYTECHNIC, AURANGABAD
- PES COLLEGE OF ENGINEERING, AURANGABAD
- PES POLYTECHNIC, AURANGABAD
- MIT COLLEGE OF ENGG., AURANGABAD
- MIT POLYTECHNIC, AURANGABAD
- AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER
- SSG COLLEGE OF ENGINEERING, SHEGAON
- SES COLLEGE OF ENGINEERING, KOPARGAON
- DR. BATU, LONERE
- GGS COLLEGE OF ENGINEERING, BIDAR
- GRAMIN POLYTECHNIC, NANDED
- SSGS COLLEGE OF ENGINEERING, NANDED
- PADMASHRI DR. VIKHE PATIL COLLEGE OF ENGG., LONI
- SVERI'S COLLEGE OF ENGINEERING, PANDHARPUR
- HI-TECH INSTITUTE OF TECHNOLOGY, AURANGABAD
- INDIRA POLYTECHNIC, NANDED
- S.S.V.P'S B.S. DEORE ENGG. COLLEGE, DHULE
- DEOGIRI COLLEGE OF ENGG., AURANGABAD
- PRAVARA RURAL ENGG. COLLEGE, LONI

- DNYANESHWAR POLYTECHNIC, NEWASA
- SHRI. GULABARO DEOKAR COLLEGE OF ENGG., JALGAON
- J D MAHAJAN COLLEGE OF ENGG., NAGPUR
- TERNA COLLEGE OF ENGG., OSMANABAD
- YASHAWANTRAO POLYTECHNIC, BEED
- S B POLYTECHNIC, INDAPUR
- PROF. RAM MEGHE COLLEGE OF ENGG., BADNERA
- PROF. RAM MEGHE INST. OF TECH. BADNERA
- SHIVAJI COLLEGE OF ENGG., PARBHANI
- P.R.POTE (PATIL) COE & MANAGEMENT, AMRAVATI
- G.H. RAISONI COLLEGE OF ENGG., AMRAVATI
- G.H. RAISONI COLLEGE OF ENGG., JALGAON
- KARMAYOGI COLLEGE OF ENGG., PANDHARPUR
- KARMYOGI POLYTECHNIC, PANDHARPUR
- SHREYASH COLLEGE OF ENGG., AURANGABAD
- SHREYASH POLYTECHNIC, AURANGABAD
- CSMSS COLLEGE OF ENGG., AURANGABAD
- N.B. NAVLE SINHGAD COLLEGE OF ENGG., SOLAPUR
- SKN SINHGAD COLLEGE OF ENGG., PANDHARPUR
- ORCHID COLLEGE OF ENGINEERING, SOLAPUR
- SHIVAJI COLLEGE OF ENGINEERING, SANGOLA
- FABTECH COLLEGE OF ENGINEERING, SANGOLA
- GAURISHANKAR POLYTECHNIC, SATARA
- GURUGOBINDSING POLYTECHNIC & , NASIK
- K.K. WAGH COLLEGE OF ENGG., NASIK
- EVEREST COLLEGE OF ENGG., AURANGABAD
- PLIT COLLEGE OF ENGINEERING BULDHANA
- WOMEN'S RESIDENTIAL GOVT. POLY., LATUR
- M.S. BIDVE COLLEGE OF ENGINEERING, LATUR
- D.Y. PATIL COLLEGE OF ENGINEERING, PUNE



## INFRASTRUCTURE AT GLANCE

- TOTAL PLOT AREA - 51878 Sq. Mtr.
- CAPTIVE POWER GENERATION - 2X320 KVA-
- ADMINISTRATION
- TRAINING
- BOYS HOSTEL
- COMMUNITY CENTER
- INTERNATIONAL HOSTEL
- MULTIPURPOSE AUDITORIUM
- SANCTIONED ELECTRIC POWER - 1500 KVA
- CAPTIVE POWER GENERATION-2X320 KVA
- BUILT UP AREA - 23092 Sq. Mtr.
- CENTRAL AIR CONDITION
- COMPRESSED AIR SUPPLY
- PRODUCTION
- GIRLS HOSTEL
- CANTEEN
- RESIDENTIAL COMPLEX
- OVERHEAD & UNDERGROUND WATER RESERVOIRS
- COMPRESSED AIR SUPPLY
- CENTRAL AIR CONDITIONING UNIT

### CLEAN, GREEN & DUST FREE ENVIRONMENT



ADMINISTRATION



AUDITORIUM



CANTEEN



TRAINING



PRODUCTION



HOSTEL

## TRAINING

### WIDE SPECTRUM OF LATEST & ADVANCE MACHINE SET UP

#### CNC MILLING

BECKEL MAHO 50T  
N SURYA - VF30  
ACE - MCV350  
JYOTI - PX30  
HAAS - TM1

#### CNC LATHE

ACE - JOBBER JUNIOR  
JYOTI - DX 150  
HAAS - TL1  
ACE - TUTOR

#### CNC WIRE CUT

ELECTRONICA - SPRINTCUT  
ELECTRONICA - ECOCUT

#### CNC SPARK EROSION

ELECTRONICA - EXPERT  
ELECTRONICA - ZNC

#### PRECISION SURFACE GRINDER

PROTH PSGS3060BH  
KENT

#### SURFACE GRINDER

KIRLOSKAR  
ELB INDIA

#### CYLINDRICAL GRINDER

HMT K 130  
PARISHUDH

#### TOOL & CUTTER GRINDER

PRAGA 3197

#### CONVENTIONAL MILLING

BFW - UF 2  
BFW - VF 2  
BFW - VF 1  
HMT - FN 1 UMITR

#### UNIVERSAL MILLING

MIKRON WF 3 SA

#### CONVENTIONAL LATHES

GEDEE WEILER LZ 350  
KIRLOSKAR ENTERPRISE 380  
KIRLOSKAR ENTERPRISE 355  
HMT NL 22  
PIONEER 350

#### HYDRAULIC TRAINING KIT

FESTO (DUAL STATION)  
(BASIC, ELECTRO & ADVANCE)

#### PNEUMATIC TRAINING KIT

FESTO (DUAL STATION)  
(BASIC, ELECTRO & ADVANCE)

#### PLC PROGRAMMING KIT

SIEMENS S71500  
ALLEN BRADLEY S7300

#### AUTOMATION

VLSI  
SCADA  
PCB  
EMBEDDED SYSTEMS  
MECHATRONICS KIT  
6 AXIS ROBOT

#### WELDING

GAS, ARC  
MIG/MAG/TIG

#### 3D PRINTER

ADROITEC RXP 2200

#### 3D SCANNER

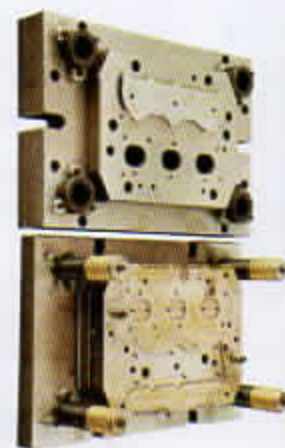
MLT, 1M, 5.0 MP

#### SP3D PANTOGRAPH 1GRAVING

PRECISION ENGL /MH 45 R

#### TOTAL STATION

TRIMBLE SPECTRA 2"





## PRODUCTION

### ULTRAMODERN STATE-OF-THE-ART TOOL ROOM FACILITIES



#### CNC-5 AXIS HIGH PRECISION MACHINING CENTRE

HERMELE C 32 U

#### CNC-5 AXIS MILL TURN

HERMELE C 62 MT

#### CNC-5 AXIS MACHINING

HERMELE-B 300

#### CNC MACHINING CENTRE

DECKEL - MAHO DMC 100V

DECKEL - MAHO DMC 70V

DECKEL - MAHO DMC 70V Hi-dyn

HARTFORD HB2150 SG

MAKINO- V33

HAAS - VF2

HAAS - VF1

HAAS - VM6

#### CNC TURN / MILL

HAAS-ST 20 SSY

#### CNC MILLING

MIKRON - UME 710

MIKRON - WF - 52D

#### UNIVERSAL MILLING

MIKRON WF 3 SA, 2 SA

UNION MILLING

HMT M1 TR

BFW UF 2. 3.5

BPW VF 3.5

#### CNC HIGH PRECISION LATHE

SCHAUBLIN 125 CCN

#### CNC JIG GRINDING

HAUSER H 45

#### JIG BORING

HAUSER B-3 DR

#### CNC SURFACE GRINDER

BLOHM - PLANOMAT HP 408

#### CNC CYLINDRICAL GRINDER

STUDDER S 33

SCHLEIF SA 5/2 U

#### PRECISION SURFACE GRINDER

ELB OPTIMAL 8550 ND, 4250 ND

KENT 715 SERIES

KENT WM 263 S Series

JUNG JF 520

#### CNC WIRE CUT

AGIE CHARMILLES - CUT 400

AGIE CHARMILLES - 440CCS

CHARMILLES ROBOFIL 510

CHARMILLES ROBOFIL 300

CHARMILLES ROBOFIL 290

ELECTRONICA ULTRA CUT S1

ELECTRONICA ULTIMA

#### CNC SPARK EROSION

CHARMILLES ROBOFORM 20

CHARMILLES ROBOFORM 40

AGIETRON ADVANCE

MITSUBISHI E A 30

#### HIGH SPEED DRILLING

CHARMILLES ROBODRILL SH 2

#### 3D MANUFACTURING METAL

EOS M 280

#### 3D MANUFACTURING PLASTICS

EOS P 396

#### 3D SCANNER

STEINBICHLER.COMET3D 5M

5M-250-25.0MM

#### CNC LATHE

GLIDEMEISTER CTX 400 E

HAAS - TL 1

HONOR - V400C

HAAS-SL 20

#### CENTRE LATHE

WEILER COMMODER, CONDOR

HMT NL 22

GEEDDEE WEILER

#### MECHANICAL PRESS

NARENDRA 3000 KN

ZEULENPODA 1250 KN

#### HYDRAULIC PRESS

DUNKES TYPE HZS 63

#### INJECTION MOULDING M/C

L & T DEMAG DL 250 T

BATTENFIELD DBA 100 T

#### SINGLE & DOUBLE CHAMBER FURNACE

NOLZEN (GERMANY)

#### HARDNESS TESTER

BRINAL & VICKERS

ROCKWELL



## QUALITY ASSURANCE

### HIGH PRECISION QUALITY ASSURANCE & CALIBRATION SERVICES

#### CNC CMM

CAL-ZEISS PRISMO VAST 5

BROWN & SHARPE HEXAGON METROLOGY

#### TOOL MAKER'S MICROSCOPE

CARL-ZEISS (10 x 30x)

#### PROFILE PROJECTOR

#### 3D SCANNER

RESOLUTION :-2448X2050

Measurement Volume In Mm<sup>3</sup>:

45 Field-of View : 45x38x30

75 Field-of View : 74x62x45

250 Field-of View : 260x215x140

500 Field-of View : 480x400x250

3D Point Distance In µm:- 45 / 75 / 250 / 500

#### CO-ORDINATE MEASURING MACHINE

CARL - ZEISS PRISMO VAST 5.

BROWN & SHARPE Hexagon Metrology

Global Performance 050705

#### LINEAR HEIGHT MASTER (ELECTRONIC)

MITUTOYO

#### SURFACE FINISH TESTER

HOMMEL

### NABL ACCREDITED CALIBRATION LAB

Calibration Services are offered for Precision measuring equipment like:

VERNIER CALIPER

MICROMETER

HIGHT GAUGE

LEVER DIAL

PLUNGER DIAL

### LASER CALIBRATION SYSTEM

CALIBRATION OF CNC MACHINE LINEAR MOVEMENT ACCURACIES  
RENISHAW'S XL-80 FOR LINEAR MEASUREMENT





AKS AUTOMOTIVE & PRESSINGS PVT. LTD.  
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ASB INTERNATIONAL LTD.  
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GEOMETRIC SOFTWARES SOLUTIONS LTD.  
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WHIRLPOOL APPLIANCES LTD.  
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YASHASHREE PRESSINGS LTD.



• Many of the IGTR trainees have established their own industry, have been employed abroad in countries like U.S.A., CANADA, NETHERLANDS, FRANCE, JAPAN, HONGKONG, AUSTRALIA, SINGAPORE, MALASIA, SOUTH KOREA, PHILIPPINES and also pursuing their higher education in India / Abroad.

• IGTR makes efforts to contact & invite companies to conduct campus interviews, however no guarantee can be given for placement / employment.



### GENERAL RULES & REGULATIONS FOR TRAINEES

1. Admissions are open for Boys & Girls, eligible candidates will be offered admission on first-come-first-serve basis as per norms.
2. IGTR reserves the right to reject any application without assigning any reason. Incomplete applications are liable to be rejected.
3. Reservation as per Govt. of India norms. In case of non NSQF compliant courses Tuition Fee / Course Fee exemption will not be applicable for SC / ST candidates.
4. Candidates belonging to reserved category should substantiate their claim by enclosing a Caste certificate issued by competent authority.
5. Medium of instruction is English only.
6. **Caste Certificate, Aadhar Card & all necessary educational certificates in original form issued by competent authority is to be produced for verification at the time of admission which may be re-verified from the issuing authority if required.**
7. Admission to the course will be given only on deposition of registration fee, other fee, first semester tuition/course fee, Security deposit as applicable and submission of relevant educational documents & caste certificate as applicable.
8. **Registration fee is non-refundable/non-transferrable in case any candidate cancels his admission for any reason.**
9. **Payment of Fee:** All the fee (Registration Fee (Non Refundable) and Course fee) should be deposited in the **SBI Power Jyoti Account (Account No. 34008490415)** at any Branch of State Bank of India in the prescribed Challan form (available on the web site). **Registration fee to be paid at the time of registration to course, balance fee (Course Fee) to be paid on confirmation of admission to the course by IGTR. On line payment facility is also available on IGTR website.**  
No fee will be accepted by Cash/Cheque/D.D.
10. **Course fee once paid will not be refunded under any circumstances.**
11. Admission to the course once confirmed will not be cancelled/transferred under any circumstances & fees paid will be forfeited.
12. **Course fee for the higher / next semester has to be paid within one week from the starting date of semester and all the candidates belonging to SC/ST category have to fill in fresh application form within one week from the starting date of each semester. Late fee will be charged as a fine from the due date as applicable for all trainees.**
13. **Security Deposit Shall be forfeited, in case of loss of original receipt of the security deposit.**
14. Registration Form is for application to the course only for admission purpose.
15. Movement of trainee within the campus shall be restricted to his /her allotted work place.
16. All the trainees will ensure discipline within the campus.
17. Regular attendance will have to be maintained by the trainee as per course schedule & 90% attendance is compulsory in all subjects **individually.**
18. All the internal assessments, assignments, evaluations will have to be attended / completed from time to time as per course schedule only.
19. Working hours are 8 hrs/day(excluding lunch) in different shifts/timing as prescribed by the Institute.
20. The machines / equipment / Furniture must be handled carefully. No act of damage to IGTR property shall be carried out by the trainee. Any loss or damage to property, fine as charged to be paid by the trainee.
21. Trainee have to ensure the proper utilization of IGTR property including Water & Electricity usage.
22. **Laptop, Mobile phone, Pen Drive, CD or any other related items are not permitted inside IGTR premises.**
23. Trainee shall be required to wear uniform and shoes as prescribed by the Institute and possess I-Card compulsory during training.



24. Trainees will abide by the examination rules and regulations displayed on Notice Board of IGTR and as ammended from time to time.
25. Leave without information / permission will not be entertained.
26. Trainees going on leave or to home during vacation should inform the Course Co-ordinator compulsory.
27. Study material Shall be provided on extra cost as applicable.
28. No trainee shall organize / conduct any meeting within the campus.
29. Smoking & chewing Tobacco, possesing or drinking Alcoholic beverages in any form is strictly prohibited within IGTR premises.
30. **Ragging is strictly prohibited in the Premises.**
31. Writing any comment / Remarks/ Name on Doors, Walls, Toilet, Notice Board is strictly prohibited.
32. Violations of above & any other Rules, Regulations, Disciplines and Conduct etc. are liable for disciplinary action.
33. IGTR is not responsible for any loss/damage of individual /personal property within around the campus.

## HOSTEL ACCOMMODATION

Separate hostel facilities may be provided for outstation boys & girls Subject to the availability of the accommodation at the discretion of the institute on extra cost as applicable.

## RULES FOR AWARDING OF CERTIFICATE

The evaluation system consists of continuous assessment of each module / subject to assess the performance of trainee. Trainees who qualify in the examination shall be placed in different divisions according to the average marks obtained. i.e.

- ❖ Distinction >85 %
- ❖ Second Class >60%&<70%

- ❖ First Class > 70%&<85%
- ❖ Pass>50%&<60%

## HOW TO REACH

### TRAVEL GUIDE

- RAILWAY STATION TO IGTR - 8 KM
- BUS STAND TO IGTR - 9 KM
- AIR PORT TO IGTR - 5 KM





ISO 9001:2008



ISO 14001:2004



ISO 29990:2010



ISO 50001:2011



ISO/IEC 17025:2005



BS OHSAS 18001:2007



## MSME TECHNOLOGY CENTRE INDO GERMAN TOOL ROOM, AURANGABAD

P-31, MIDC, Chikalthana Industrial Area,  
AURANGABAD. 431 006 (M.S.)  
Phone : (0240) 2486832, 2482593, 2470541, 2480578  
Fax : (0240) 2484028 E-mail : gm@igtr-aur.org  
Web Site : <http://www.igtr-aur.org>, [www.igtr-aur.gov.in](http://www.igtr-aur.gov.in)



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### SUB CENTERS

#### MUMBAI

MSME DI-IGTR CAD/CAM TRAINING CENTRE  
MSME Development Institute,  
Saki Naka, Kurla - Andheri Road,  
Mumbai 400 072.  
Phone : 0091 - (022) 28573020, 28573024  
Fax No. 0091 - (022) 28570663  
Email : [training\\_mum@igtr-aur.org](mailto:training_mum@igtr-aur.org)

#### PUNE

IGTR - MSME DI CAD/CAM  
TRAINING CENTRE  
Near PMT Workshop, Shikharshet Road,  
Swargate, Pune - 411 037  
Phone : 0091 - (020) 24440861  
Fax No. : 0091 - (020) 24440862  
E-mail : [igtr\\_pune@yahoo.co.in](mailto:igtr_pune@yahoo.co.in)

#### NAGPUR

INDO GERMAN TOOL ROOM, AURANGABAD  
EXTENSION CENTRE, NAGPUR  
P-142, MIDC Hingna,  
Nagpur- 440028 M.S. India,  
Tel. No.: (07104) 645114, 9225982264  
Fax : (07104) 645114  
E-Mail: [training\\_ngp@igtr-aur.org](mailto:training_ngp@igtr-aur.org)