TRAINING INFRASTRUCTURE

TO BRIDGE THE GAP BETWEEN INDUSTRIAL NEEDS FOR TRAINED, SKILLED & INNOVATIVE MANPOWER THE TRAINING CENTER OF IGTR-AURANGABAD IS ONE OF THE MOST SOPHISTICATED SETUP FOR IMPARTING TRAINING IN TOOL & DIE, CNC AND CAD/CAM TECHNOLOGY. THE TRAINING IS IMPARTED THROUGH SCIENTIFICALLY DEVELOPED CURRICULUM WITH THE APPLICATION OF LATEST AUDIO VISUAL TRAINING EQUIPMENT. THE EMPHASIS IS ON MAINTAINING OF SCIENTIFIC BLEND OF THEORY AND PRACTICE TO EQUIP THE TRAINEE FOR APPLYING ACQUIRED KNOWLEDGE.

IGTR TRAINING INFRASTRUCTURE HAS:

CNC MACHINES

MODERN & PRECISION MACHINES WITH LATEST TECHNOLOGICAL APPLICATION IS A TRUE ASSEST FOR A TRAINNE TO EXPERINCE WITH THE TECHNOLOGY & TRAINEE CAN AQUIRE HIGHER DEGREE OF PRACTICAL KNOWLEDGE THROUGH

- CNC MACHINING CENTRE
- CNC MILLING
- CNC LATHE
- CNC WEDM
- CNC EDM
- ZNC EDM

CONVENTIONAL MACHINES

AQUIRING BASIC MACHINING SKILL FOR A BEGINER CAN BE ACHIEVED WITH BETTER EQUIPPED THE BASIC MACHINE EQUIPMENT & RELVANT SPECIAL ATTACHMENTS FOR ALL AROUND SKILL DEVELOPMET & IS DONE THROUGH

- LATHE
- MILLING
- SURFACE GRINDING
- CYLINDRICAL GRINDING
- TOOL & CUTTER GRINDING
- SINGLE LIP CUTTER GRINDER
- COLUMN DRILLING
- PENTOGRAPH ENGRAVING
- EDM
- PRESS TOOL / INJECTION MOULDING PRESS

CAD CAM CAE / CNC CELL

LATEST CONFIGUARATION WORK STATIONS SUPPORTED WITH LATEST P- 4 PC'S IS AN PART OF THE CAD CAM CAE CELL INFRASTRUCTURE & AIM IS TO

- FOCUS ON CAD / CAM / CAE / CNC RELATED SERVICES FOR ENGINEERING INDUSTRY
- TO BRIDGE THE GAP BETWEEN INDUSTRIAL NEEDS & ASPIRING ENGINEERING PROFESSIONALS TECHNICAL SKILL IN THE AREA OF CAD / CAM / CAE / CNC

CAD / CAM / CAE / CNC CELL UNDERTAKE

- PRODUCT CENCEPTULIZATION / PRODUCT DEVELOPMENT
- SOLID & SURFACE MODELLING
- TOOL PATH GENERATION
- TOOLPATH OPTIMIZATION
- REVERSE ENGINEERING

LOW COST AUTOMATION

- LATEST TECHNOLOGY, WORKSTATIONS AND TRAINING KITS FOR SKILL DEVELOPMENT RELATED TO INDUSTRIAL AUTOMATION AND ROBOTICS IN THE FOLLOWING AREA
 - PLC
 - SCADA
 - ELECTRICAL CAD
 - EMBEDDED SYSTEM
 - VLSI
 - EPLAN
 - MATLAB
 - DRIVES
 - MODULAR PRODUCTION SYSTEM
 - PROCESS AUTOMATION
 - AUTOTRONICS
 - SAMSUNG

CAD CAM CAE / CNC MACHINING LABS

- CAD LABS 05
- CAM LABS 02
- CAE LAB 02
- CIVIL ENGINEEING SOFTWARE LAB 03
- CNC MACHINING LAB 05
- CNC PROGRAMING LAB 02
- CNC SIMULATOR LAB 02
- COMPUTER HARDWARE MAINTENANCE LAB 01
- ADVANCE NETWORKING LAB 02
- INTERNET LAB 01
- METROLOGY LAB 01
- PLC & SCADA LAB- 02
- MECHATRONICS LAB-01
- MATLABLAB 01
- ELECTRICAL CAD- 01
- EPLAN LAB -01
- PRODUCT AUTOMATION LAB- 01
- PROCESS AUTOMATION LAB- 01
- AUTOTRONICS LAB- 01
- ELECTRICAL DRIVES LAB 01
- EMBEDDED LAB 01
- VLSI LAB 01
- HYDRAULICS & PNEUMATICS LAB 01
- SAMSUNG- 01

HIGH END CAD CAM CAE SOFTWARES

PRODUCT CONCEPTUALIZATION, PRODUCT DEVELOPMENT, REVERSE ENGINEERING IS DONE WITH LATEST & UPDATED VERSION OF SOFTWARES LIKE

CAD

- UNIGRAPHICS NX19
- CREOPARAMETRIC 3. 0/4.0
- CATIA V6
- SOLIDWORKS 2018
- INVENTOR 9
- MDT 6
- AUTOCAD 2020/21/22
- ELECTRICAL CAD- 2020

CAM

- UNIGRAPHICS NX19
- MASTERCAM X9
- **DELCAM 2017**

CAE

- ANSYS 19.0
- HYPERWORKS 2020
- MOLDEX 3D 2021
- NASTRAN
- MOLD FLOW MPA 4.0
- COSMOS
- PRO PLASTIC ADVISOR

CIVIL ENGINEERING

- AUTOCAD 2020/21/22
- **3DS MAX 2020/21/22**
- REVIT ARCHITECTURE 2020/21/22
- AUTOLEVEL
- STAAD PRO -V8i
- GPS
- TOTAL STATION

CNC PROGRAMMING & MACHINING

MTS

AUTOMATION

- TIA- V13/V14
- WINCC COMFORT
- MICROWIND-3.8
- MATLAB-R2015b
- EPLAN ELECTRC P8
- CROSSWARE
- FLUIDSIM
- SIEMENS SINAMICS

SAMSUNG

- RACHA
- AUDIO VIDEO
- HHP

CLASS ROOMS

CLASS ROOMS ARE ACCOUSTICALLY DESIGNED & ARE EQUIPPED WITH MODERN AUDIO VISUAL EQUIPMENTS

DESIGN HALL

MODERN DAY TOOL DESIGN CAN DONE WITH FULL FLEDGED GERMAN & INDIAN DESIGN EQUIPMENTS EUIPPED DESIGN LAB WITH 120 DESIGN STATIONS

• METROLOGY LAB

WELL EQUIPPED WITH RELEVANT MEASURING INSTRUMENTS, DEMOSTRATION KITS, PRACTICAL WORK PIECES & AUDIO VISUAL EQUIPMENTS

INTERNET LAB

CONNECTED WITH THE PROPER HARDWARE & SOFTWARE FACILITY BEING PROVIDED FOR INFORMATION SHARING, KNOWLEDGE AQUIREMNT FOR THE BENEFIT OF THE STUDENT COMMUNITY.

• HYDRAULICS & PNEUMATICS LAB

DESIGNED FOR THE MODERN DAY INDUSTRIAL REQUIREMNTS FOR THE AUTOMATION APLLICATION TWAIN STATION LAB WITH