



ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ, ਕਪੂਰਥਲਾ

I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR, KAPURTHALA

Office of Corporate Relations & Alumni

Ref. No. IKGPTU/CRA/ 04

Dated Jan/08/2021

**Directors/Principals/Incharge  
All the university Campuses  
I K Gujral Punjab Technical University**

**Sub: Regarding Industrial Training for B.Tech students.**

**Sir/Madam**

Central Institute of Hand Tools, Jalandhar is offering various Industrial Training courses for B.Tech students which are covered under National Skills Qualifications Framework (NSFQC).

University students which are going to pursue their semester training w.e.f. February 2021 can opt for these courses as per the attached details. The said courses can be pursued in both online or offline mode.

Central Institute of Hand Tools Jalandhar is offering 10% discount for IKG PTU students who opt for these trainings.

For more queries, students are requested to contact Sh. Vikramjit Attri @ 7986832232

*MSB* *3/1/2021*  
**With profound regards,**

**Assistant Director  
(Corporate Relations & Alumni)**

*"Propelling Punjab to a Prosperous Knowledge Society"*

**I.K. Gujral Punjab Technical University**

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Golden Oppertunity for Industrial Training for B.Tech /Diploma /ITI Passed / Pursuing Students for NSQF Compliant / Exempted Courses

6 Months / 4 Months Training Program (online/offline)

SR.NO	PROGRAM NAME	DURATION	BRIEF CONTENTS
1	Master certifiecte course in CAD/CAM (NSQF Level-6)	6 month 780 HRS	<b>Theory:</b> CNC Programming and CNC Machining. <b>Software:</b> Computer Aided Design (CAD-Auto CAD and Solid works), Computer Aided Design & Computer Aided Manufacturing (Unigraphics CAD & Unigraphics CAM), Computer Aided Engineering (ANSYS), Advance Computer Aided Design (CREO Parametric and CATIA), CNC Programming and CNC Machining, , Course-work: Project <b>Practical:</b> Software Training <b>Specilized Course:</b> Employability & Entrepreneurship Skills .
2	Master certificate course in CNC technology (NSQF Level-6)	6 month 780 HRS	<b>Theory:</b> Planning, sequenc of operations, Total Quality Management <b>Software:</b> CNC simulator for CNC Part programming, CAM software <b>Practical:</b> Software Training, Execution of Job, Arrangement of tools & accessories, Elements of tools with their Functions,6Manufacturing Process & Process Plan, Tool & Die Manufacturing Plan, Mannual part programming, Execution of CNC Programme through CAM and Project work on live jobs.
3	Advanced diploma in computer hardware & network management (NSQF Level-6)	6 month 780 HRS	<b>Theory:</b> Basic Electronics, Power Supply, PC Architecture and Network, Essential, setup & management <b>Software Training:</b> Operating system, MS office, Linux, LAN <b>Practical :</b> Software Installation, Up gradation & Maintenance, Power supply, Network management & server configuration, LINUX management & network configuration, Basic Electronics, Office Package <b>Specilized Course:</b> Employability and Communication Skill
4	Masters Certificate Course in Mechatronics (NSQF Level-6)	6 month 780 HRS	<b>Theory:</b> PLC, SCADA, Automation Techniques, Mechatronics systems, Sensor & Actuator, Industriaial Hydraulic & Pneumatic. <b>Software:</b> PLC (ALLEN BRADLEY), SCADA-Simens, LabView Robotino <b>Practical:</b> Hardware & software Training, working of Robotics, application of sensors, working principles robotic Buggy, Quardcopter and Robotic arm etc. <b>Specilized Course:</b> Employability & Entrepreneurship
5	Advance Certificate Course in Inspection & Quality Control (NSQF Level-5)	6 month 780 HRS	<b>Theory:</b> Engineering Drawingy, Engineering Metrology, Workshop Calculation, Total Quality Management, Inspection (CMM), <b>Software:</b> AutoCAD, Master CAM, N.X (UNIGRAPHICS). <b>Practical:software training,</b> Inspection & Quality Control -On Job Training, CMM <b>Specilized Course:</b> Employability skill
6	Graphics & Web Designing (NSQF Level-5)	4 month 390 HRS	<b>Theory:</b> Fundamentals of computer & Introduction of computer graphics. <b>Software:</b> Adobe Photoshop, Corel Draw, Adobe Illustrator, Adobe In Design, Web Designing and Project work. <b>Practical:</b> Software Training. <b>Specilized Course:</b> Employability & Enterprenureship skills.

4 Weeks / 6 Weeks Training Program (online/offline)

7	AutoCAD – Mechanical	96 Hrs	<b>Software Training on Autocad :</b> Create 2D sketch, Edit of models, Understand the layer management & block, Create solid model mechanical components.
8	Solidworks	96 Hrs	<b>Software Training on Solidworks:</b> Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting.
9	CREO Parametric	96 Hrs	<b>Software Training: Creo/Mastercam/NX/Catia</b> Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design & drafting
10	MasterCAM	96 Hrs	
11	Unigraphics/NX	96 Hrs	
12	CATIA	96 Hrs	<b>Specialized Courses</b> Observe & follow safety Communicate effectively.
13	ANSYS	96 Hrs	<b>Software Training:</b> Understand Finite Element Methods & GUI of ANSYS, Perform Structural Analysis for 1D elements, Analysis of 2D Structure, Analysis of 3D Structure.
14	E CAD	96 Hrs	<b>Practical:</b> Software Training on E-CAD software, design different types of electrical circuits.
15	PLC programming	96 Hrs	<b>Theory:</b> Basic Electronics, Switching ,Logic Gates, Wiring of PLC, Broad knowledge of PLC programming.
16	SCADA	96 Hrs	<b>Practical :</b> SCADA design, SCADA design principles , software for generating solutions in SCADA, communicate effectively.
17	Embedded systems	96 Hrs	<b>Practical :</b> Embedded system, Programming Languages And Operation Of 32 Bit Microcontroller, Software For Generating Solutions In EMBEDDED SYSTEM.
18	CNC Programming - Turning	96 Hrs	<b>Theory:</b> List different Cutting tooling standards , Develop mathematical / Analytical skills <b>Practical:</b> Execute CNC Programme on CNC simulator CNC Turning/Milling Programming - On job training.  <b>Specialized Courses</b> Observe & follow safety Communicate effectively.
19	CNC Machining - Turning	96 Hrs	
20	CNC Programming - Milling	96 Hrs	
21	CNC Machining - Milling	96 Hrs	
22	JAVA	96 Hrs	<b>Practical:</b> Java and Understand JVM and Its Architecture, Control Statement And Looping, Class and Object, Constructor, Array Inheritance, Package, string, HTML,CSS, java script.
23	Computer Hardware & Networking	96 Hrs	<b>Practical:</b> Basic Electronics, Computer Software, Computer Hardware and Networking <b>Specialized Courses</b> Observe & follow safety and Communicate effectively.

- Limited seats -First come first serve basis
- Batch Starting from w.e.f Jan/Feb
- Both online & Practical training will be imparted through state of out Softwares & Machineries
- Nominal charge for General category students,No charge for SC/ST students
- Our Recruiters Include Sonalika,Honda,Hindustan Hydraulics,Ahresty,Lohia corp,Swaraj,Krishna Maruti.

For any Clarification /Enquiry Regarding registration /Fee payment, You may visit [www.ciht.in](http://www.ciht.in) and also contact on below Numbers

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