CIIITs Centre for Invention, Innovation, Incubation and Training

A joint initiative by
IKGPTU, Kapurthala and
Tata Technologies

Established at
IKGPTU, Main Campus, Kapurthala, Punjab
& IKGPTU Sultanpur Lodhi Campus, Punjab

About CIIIT

CIIIT (Center for Invention, Innovation, Incubation and Training), a joint initiative by IKGPTU and Tata Technologies has been established at IKGPTU, Main Campus & IKGPTU Sultanpur Lodhi Campus to strengthen industry-academia partnerships and to train students with industrial experiential learning.The main aim of establishing these CIIITs is to facilitate innovation and work towards bringing qualitative improvements in Technical Education.The long-term goal of these CIIITs is to create a skilled manpower and to enhance employability prospects of students in the manufacturing as well as other mechanical engineering sectors.

Objectives of CIIITs:

CIIITs have been established with the following objectives:

- Promote Invention, Innovation and Incubation.
- Strengthen the Industry–Academia.
- Train students in Industrial Experiential learning.
- Build a skilled workforce pool to cater the current and future industrial landscape.
- Develop techniques, skills and modern engineering tools necessary for product design, development and manufacturing.
- Develop competency to analyze a problem, and identify, articulate and use the appropriate computing and engineering requirements for obtaining its solution.
- Develop competency for designing a system, components, process to meet ever-demanding performance and safety standards within realistic constraints such as economic, environmental, manufacturability, and sustainability.
- Enable candidates to take up industry-relevant skill training that will improve their theoretical as well as practical knowledge and help them in securing a better livelihood by bringing necessary synergy, oversight and effective coordination.

Key Machines & Technologies at CIIITs:

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The Key machines & Technologies which are available at these Centres are:

- Laser cutting and Engraving machine
- Computer numeric controlled (CNC Turning Machine)
- Vertical Machining Centre (VMC Machine)
- Hydraulic Press
- 3D Printer (AHA for additive manufacturing of large components)
- 3D Printer (Ultimaker for additive manufacturing of small components)
- Hydraulic Milling Machine
- Robotic Arc Welding (KUKA Robot)
- Robotic Ultrasonic Welding (KUKA Robot)
- Assembly Line (Chain operated Conveyor)
- Pick and Drop Robot (TAL Robot)
- Brazing Facility
- Cut Sections of SUV Model and Tractor
- Designing & Analysis Softwares (PTC Creo & MSC etc.)

At CIIITs, students get full exposure to the Industrial Environment as the machines available at this Centre are high-end Industrial machines used not only to train the students but also used for the production purposes. Training is imparted by the Industrial as well as academia experts to make the students ready for industry so that they can meet the upcoming technological requirements of the industry.

CIIIT Centres:

IKGPTU Main Campus, Kapurthala

IKGPTU Sultanpur Lodhi Campus
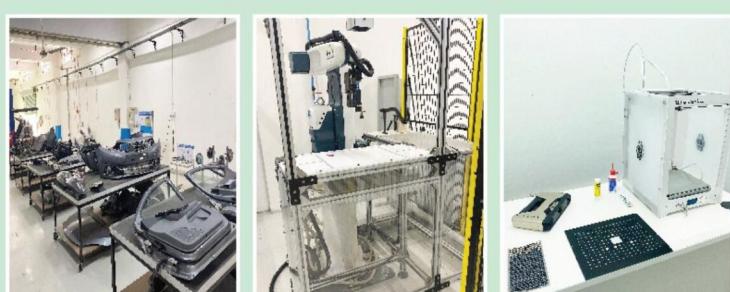
Programs Offered at CIIIT, IKGPTU Main Campus, Kapurthala:

S. No.	Course Name	Duration	Eligibility	No. of Students per batch
1.	Semester Training	6 Months	B.E./B.Tech. (Final year students of IKGPTU & Punjab Govt. Colleges)	20
			B.E./B.Tech. (Final year students of other colleges)	
2.	Summer Training	4 Weeks	B.E./ B.Tech. (2nd / 3rd Year Students of IKGPTU and Punjab Govt. Colleges)	20
			B.E./ B,Tech. (2nd / 3rd Year Students of other colleges)	
3.	Product Design and Development	1 month	B.Tech,/B.E./M.Tech,/M.E. (Final Year Students are also eligible)	20
			Industry Professionals	
4.	Mechatronics and Internet of Things	1 month	B.Tech./B.E./M.Tech,/M.E. (Final Year Students are also eligible)	20
			Industry Professionals	
5.	Advanced Industrial Robotics	1 month	B.Tech,/B.E./M.Tech,/M.E. (Final Year Students are also eligible)	20
			Industry Professionals	
6.	Advanced Manufacturing	1 month	B.Tech./B.E./M.Tech,/M.E. (Final Year Students are also eligible)	20
			Industry Professionals	
7.	Manufacturing Execution System	1 month	B.Tech./B. E./M.Tech./M.E. (Final Year Students are also eligible)	20
			Industry Professionals	

Programs offered at IKGPTU Sultanpur Lodhi Campus:

S. No.	Course Name	Duration	Eligibility	No. of Students per batch
1.	Industrial Training	4 Weeks	Diploma / ITI (Final year students/Passouts of Punjab Govt. Colleges)	20
			Diploma / ITI (Final year students/Passouts of other Colleges)	20
2.	CAD Engineering +Product Lifecycle Management	1 Month	Diploma / ITI (Final year/Passouts students)	20
3.	Industrial Robotics and Manufacturing Execution System	1 Month	Diploma / ITI (Final year/Passouts students)	20
4.	Manufacturing Processes: Additive Manufacturing & Reverse Engineering	1 Month	Diploma / ITI (Final year/Passouts students)	20
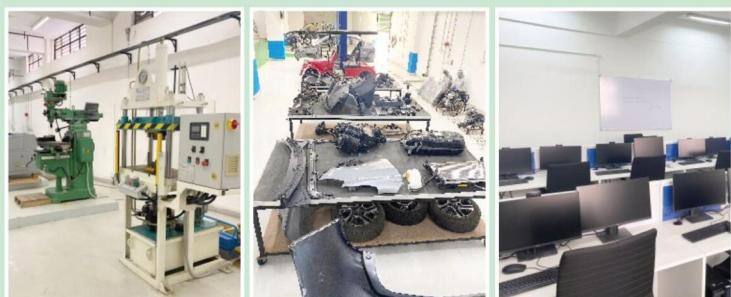
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How to Apply - Click on	How to Apply - Click on
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