



CIITs Centre for Invention, Innovation, Incubation and Training at I.K. Gujral Punjab Technical University, Kapurthala

*A joint initiative by
IKGPTU, Kapurthala and
Tata Technologies*

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

About CIIT

CIIT (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 CIITs is to facilitate innovation and work towards bringing qualitative improvements in Technical Education. The long-term goal of these CIITs 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 CIITs:

CIITs 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.



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)
- 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)
- Assembly Line (Chain operated Conveyor)
- Pick and Drop Robot (TAL Robot)
- Brazing Setup
- Cut Sections of SUV Model and Tractor
- Designing & Analysis Softwares (PTC Creo & MSC etc.)

At CIITs, students get full exposure to the Industrial Environment as the machines available at these Centres 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 industry ready so that they can meet the upcoming technological requirements of the industry.

CIIT Centres:

IKGPTU Main Campus, Kapurthala

IKGPTU Sultanpur Lodhi Campus



**Programs Offered & Fee Structure at CIIT,
IKGPTU Main Campus, Kapurthala:**

S. No.	Course Name	Duration	Eligibility	No. of Students per batch	Fees (INR) + applicable GST extra
1.	Design & Engineering	3 months (2 Hours per day)	B.Tech/B.E/M.Tech/M.E and Final Year Students are also eligible	20	6,000
		1 Week (5 Days) 7 hrs. per day	Industry Professionals		20,000
2.	Advanced Virtual Verification & Analysis	3 months (2 Hours per day)	B.Tech/B.E/M.Tech/M.E and Final Year Students are also eligible	20	7,000
		1 Week (5 Days) 7 hrs. per day	Industry Professionals		20,000
3.	Advanced Product Lifecycle Management	3 months (2 Hours per day)	B.Tech/B.E/M.Tech/M.E and Final Year Students are also eligible	20	6,000
		1 Week (5 Days) 7 hrs. per day	Industry Professionals		20,000
Domain Exploration Center					
4.	Advanced Automotive Engineering	3 months (2 Hours per day)	B.Tech/B.E/M.Tech/M.E and Final Year Students are also eligible	20	5,000
		1 Week (5 Days) 7 hrs. per day	Industry Professionals		20,000
5.	Mechatronics and Internet of Things	3 months (2 Hours per day)	B.Tech/B.E/M.Tech/M.E and Final Year Students are also eligible	20	5,000
		1 Week (5 Days) 7 hrs. per day	Industry Professionals		20,000
Integrated Advance Manufacturing Center					
6.	Advanced Industrial Robotics	3 months (2 Hours per day)	B.Tech/B.E/M.Tech/M.E and Final Year Students are also eligible	20	5,000
		1 Week (5 Days) 7 hrs. per day	Industry Professionals		20,000
7.	Advance Manufacturing	3 months (2 Hours per day)	B.Tech/B.E/M.Tech/M.E and Final Year Students are also eligible	20	5,000
		1 Week (5 Days) 7 hrs. per day	Industry Professionals		20,000

8.	Advanced Additive Manufacturing & Reverse Engineering	3 months (2 Hours per day)	B.Tech/B.E/M.Tech/M.E and Final Year Students are also eligible	20	5,000
		1 Week (5 Days) 7 hrs. per day	Industry Professionals		20,000
9.	Advanced Manufacturing Execution System	3 months (2 Hours per day)	B.Tech/B.E/M.Tech/M.E and Final Year Students are also eligible	20	5,000
		1 Week (5 Days) 7 hrs. per day	Industry Professionals		20,000
10.	Semester Training	6 hrs. per day	(B.E/ B. Tech. Final year students)	20	10,000

Programs offered at IKGPTU Sultanpur Lodhi Campus

S. No.	Course Name	Duration	Eligibility	No. of Students per batch	Fees (INR) + applicable GST extra
1.	Industrial Training	4 Weeks	Diploma / ITI (Final year students are also eligible)	20	1700
2.	CAD Engineering +Product Lifecycle Management	3 months (2 Hours per day)	Diploma / ITI (Final year students are also eligible)	20	6,000
3.	Virtual Verification & Analysis	3 months (2 Hours per day)	Diploma / ITI (Final year students are also eligible)	20	7,000
Integrated Advanced Manufacturing Center					
4.	Industrial Robotics	3 months (2 Hours per day)	Diploma / ITI (Final year students are also eligible)	40	5,000
5.	Manufacturing Processes	3 months (2 Hours per day)	Diploma / ITI (Final year students are also eligible)	40	5,000
6.	Additive Manufacturing & Reverse Engineering	3 months (2 Hours per day)	Diploma / ITI (Final year students are also eligible)	40	5,000
7.	Manufacturing Execution System	3 months (2 Hours per day)	Diploma / ITI (Final year students are also eligible)	35	5,000



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How to Apply - Click on
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How to Apply - Click on
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