

Sl. No.	Indicator	Metric No.
3.	Indicator-07	7.2.1 (Q1)

### 1. Title of the Practice

To impart latest technological training(s)/solution(s) to the students of IKGPTU and other technical institutions and to strengthen their technical skills through industry faculty (subject matter expert) at Center of Invention, Innovation, Incubation and Training (CIIT).

### 2. Objectives of the Practice

- To provide and arrange hardware, Technology Tools, Equipment & Machinery with required configuration needed for running the technology solutions in the CIIT Centers (Hub and Spoke).
- To provide technology solutions and deploy industry faculty (Subject matter expert) along with the specialist trainer resources to provide an edge to CIIT.
- To educate and train students for practicing professionalism, ethical approach, leadership and entrepreneurship ability.
- To build a skilled workforce pool to cater to the current and future industrial landscape.
- To develop proficient technocrats catering to the needs of industry, society and environment.
- To develop competency to analyze a problem, identify, articulate and use the appropriate computing and engineering requirements for obtaining its solution.
- To provide all required assistance with respect to installation, maintenance and up gradation of technology solution.
- To provide learning tools i-GET-IT as the teaching platform hosted by Tata Technologies Limited (TTL).
- To provide a certificate of completion to the students who successfully complete the examination conducted by Tata Technologies Limited (TTL). The course will be joint certificate by TATA Technologies and I.K Gujral Punjab Technical University after a student completes a course.

### 3. The Context

The vision of the CIIT is to bring changes and empowerment of youth through technical education. It is here where young innocent minds are groomed, nurtured and given a shape that lasts throughout the end of an individual's life. The institute focus of industry-institute linkage and entrepreneurship culture for better placement of pass out students. The center consists of high-end industrial workstations, which are loaded with advanced tools used for Product Design and Engineering. This Center facilitates industry environment with the latest technology tools (such as PTC CREO etc.) used by major industries for product design & engineering.

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#### 4. The Practice

This center consists of simulation software technology that enables engineers to validate and optimize their designs using virtual prototypes. These technologies help companies to improve quality, save time, and reduce costs associated with design and test of manufactured products. These Software (such as Ansys, FEAST etc) are used by leading manufacturers for linear and nonlinear finite element analysis (FEA), computational fluid dynamics (CFD), advanced material modelling, acoustics, fluid structure interaction, multi-physics, optimization, fatigue and durability, multi- body dynamics, controls, and manufacturing process simulation. The training is very useful for the students to get placements or becoming entrepreneurs. The center is not operational since Dec. 2022 due to pending renewal of MOU.

**5. Evidence of Success:** The center has trained the students since Dec. 2022 but this center is not operational due to pending renewal of MOU with Tata Technologies Limited.


#### 6. Problems Encountered and Resources Required

CIIT, Sultanpur Lodhi, the spoke of the center is located in the remote area and it has other challenges like no provision of mess/canteen, hostel etc. The center is away for the city and there is no availability of public-transport. CIIT Kapurthala center is located in the basement so sometimes the moisture of the basement effects the working of CNC machines.

**7. Notes (Optional):** NIL

Any other information regarding Institutional Values and Best Practices which the university would like to include: NIL

Provide web link to: <https://ptu.ac.in/ciit/ciit-kapurthala/>

  
**Head CIIT**

  
**Coordinator CIIT**  
  
28/9/24