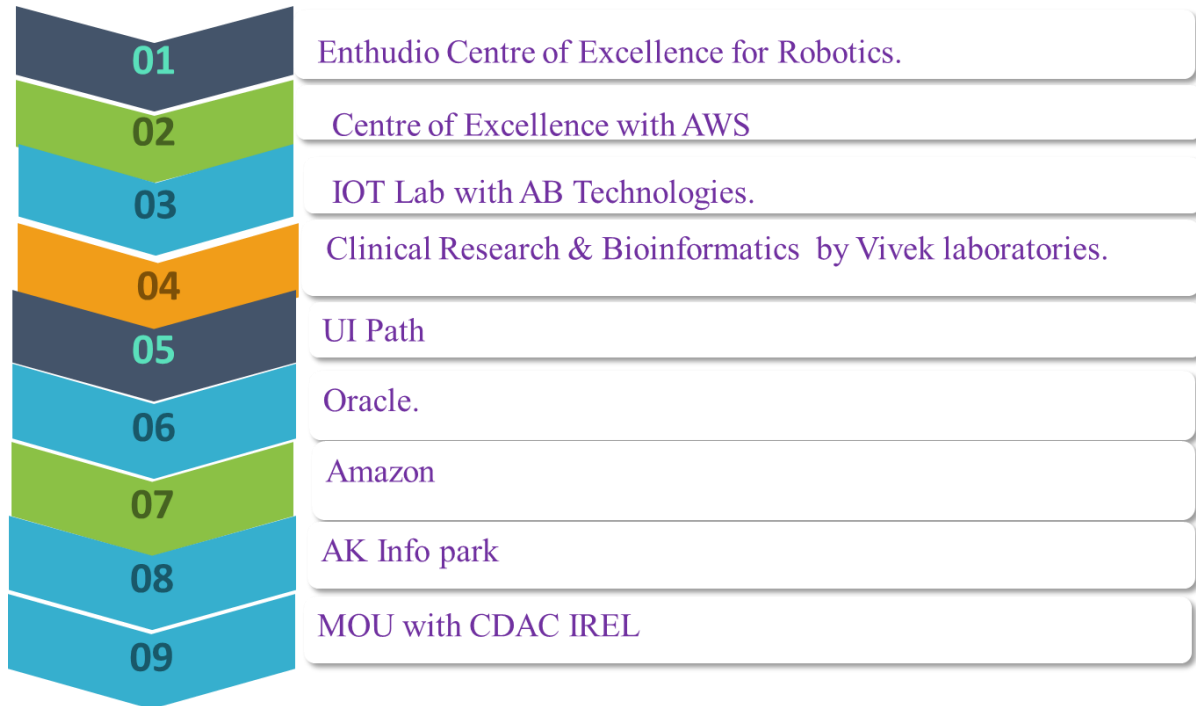


Innovation Labs




No. of Students Trained & Certified




PTC Creo	14
PTC WIND CHILL	120
AR/VR	120
IoT	150





Benefits to students (UG/PG/Projects/Internship) and staff (FDP/Projects) to be mentioned quantitatively

- Opportunity to develop patentable products for IPRs.
- Technical Events like FDPs, skilling programs, boot camps, conference, symposium and workshops.
- Training on cutting edge facilities
- Fabrication Lab for prototype development
- Consultancy work
- Summer Internships

Major equipment available

SI No	Name of the Equipment	Features	Photos
1	3D Printer	Model: ENDER 3 V3 KE Build Volume (mm): 220x220x240mm Print Technology: FDM Input Voltage (V AC): 100-120V~, 200-240V~, 50/60Hz Rated Power (W): 350 Extruder: Upgraded "Sprite" direct drive extrusion Heating Plate Temp.: $\leq 100^{\circ}\text{C}$	

2	Industrial Robot	<p>Model: KR 10R1420</p> <p>Pay load: 10 kg</p> <p>Max. reach: 1420 mm</p>	
3	CNC Turning Centre	<p>Model: Sprint 16TC</p> <p>Chuck size: 165mm (std.) & 200mm (opt.)</p> <p>Max. turning length with chuck: 300mm</p> <p>Max. turning length between center: 325mm</p>	
4	CNC Milling Machine	<p>Output Voltage: 0-30 V</p> <p>Design: Compact</p> <p>Display Type: Digital</p> <p>Operating Ambient Temperature: 0 to 50 Degree</p>	

5	CNC Vertical Milling Machine	Model: PX 20 nvu Work Table size: 660*460 mm X,Y&Z axis travel: 510mm	
6	Stir Casting	Material Loading Capacity. 200 Kg. Max Operating Temperature. 500 degree Celsius. Melting Material. Aluminium. Power Source. Electric. Type Of Furnace. Fix. Voltage. 220 v.	
7	Shaper Machine: Make	Specification: 3hp, 3phase Induction motor (1440 rpm)	
8	Lathe Machine(pl-4)	Specifications: 1hp -3phase Induction motor (1380 rpm) Quantity:- 4	

Proposed activities for IDEA

Activities	Frequency	Participants
FDP(06 Days)	02	Faculty (20)
Skilling Programs (06 Days)	04	Students (20-30)
Boot Camps (12 Days)	02	Faculty (05 to 10)
Ideation Workshops (03-05 Days)	04	Students (30-40)
Awareness Workshops for Industry (02 Days)	04	Industry Participants (5-10)
Internships (2 to 6 months)	02	Students (15-20)
Professional Skilling Programs (12 Days)	04	ITI Students or class
School Teachers Awareness Program (06 Days)	02	Teachers of nearby Schools
Open Day for School Students (One Day)	02	Students Nominated by Schools (25-30)
Participation in Annual Technical Exhibitions	02	Nationwide IDEA labs
Annual Conference/Symposium	01	All IDEA labs

of all IDEA Labs

