



Research & Industry Supported Labs

The Department of Electrical & Electronics Engineering has different laboratories like Basic Electrical Engineering Laboratory, Electrical Circuits Laboratory, Electronics Laboratory, Electrical Machines Laboratory, Microprocessor Laboratory, Control Systems Laboratory and Power Electronics Laboratory which contain all the necessary equipment for the students to carry out the project and research work.

In addition, the department is privileged with industry supported laboratories like SEIMENS laboratory, a joint venture of MITS and APSSDC, Centre of Excellence in Robotics laboratory and Drone Center of Excellence laboratory which provide hands-on experience for the students in advanced technologies like IoT and Smart Grid, Testing and Maintenance of Electrical Equipment and Machinery, Embedded Systems, IGDC, SCALE Program, Robotics, Drone etc.

The list of equipment and the details of the industry supported laboratories are furnished below.

Details of equipments available in different Industry supported laboratories for carrying out projects

S. No.	Laboratory	Sponsorship/ Collaboration Details	Equipments Available in the Laboratory
1	SEIMENS (Electrical Home)	APSSDC (Andhra Pradesh State Skill Development Center) & SEIMENS	Variable Frequency Drive Kit
			Removable and constructional Step Down Transformers
			CRO, DC Power Supply, Flux Meter and RPS
			Discrete Component Trainer Kit
			Single phase Variac
			Single phase core type transformer 230/415 V
			3 Phase Induction motor Cut Section model
			Soldering & De-Soldering gun
			Electrical Machine Trainer
			DC Motors - Series, Shunt, Compound
			Used DC generators _ Series, Shunt & Compound
			Synchronous Motor (3 phase)
			Squirrel cage & Slip -Ring Induction Motor (3 phase)
			Stepper Motor with Digital Controller
			Shaded Pole Motor
			Motor - Generator Set with control unit
			Generator - Motor Set with control unit
Single Phase Capacitor motor & AC Sereis Motor			
Universal Motor			
3-Phase Induction Motors			
Measuring Instruments - Multimeters, Clamp Meter, Earth Tester, Tachometer			
2	Center of Excellence in Robotics	1.E-YANTRA Lab Setup Initiation, IIT Bombay 2.SAKROBOTIX Lab Pvt Ltd, Startup Center, IIT Bhubaneswar	Fire Bird V Robots with AVR Micro controllers
			Spark V Robots with 8051 Micro controllers
			Mobile Robots with 8051 Micro controllers
3	Drone Center of Excellence	1. E-YANTRA Lab Setup Initiation, IIT Bombay 2. SAKROBOTIX Lab Pvt Ltd, Startup Center, IIT Bhubaneswar	Raspberry Pi Models for various applications
			Drone with Pixhawk Controller
			Drone with XRotor Micro Controller