

Major Equipments available in the Lab

S. No.	Name of the Equipments	Specification	Quantity
1	Digital Storage Oscilloscope (DSO)	(0-60)MHz	5
2	Single Regulated Power Supply	(0-30)V/2A	3
3	Function Generator	(0-3)MHz	5
4	Multi-meters		5
5	Spectrum Analyzer		1
6	8051 Microcontroller Kit		2
7	TMS320C67X DSP Trainer Kit		2
8	MSP430F225 16-bit Microcontroller		2
9	CPLD/FPGA Development Board		2
10	ARM Processor Kits		2
11	Wireless Interface using Zigbee		2

Courses Offered

S.No.	ODD Semester	Class	No. of Sessions	EVEN Semester	Class	No. of Sessions
1	Mini Project		4	Project work	8 th Sem ECE	4
2	PG Project Work (Phase-I)	3 rd Sem ME AE	2	PG Project Work (Phase-II)	4 th Sem ME AE	2
Percentage of Lab Utilization : 60%				Percentage of Lab Utilization : 60%		

Department of Electronics and Communication Engineering
Project Work Lab

Instructional Objectives:

- To provide the opportunity to the students apply their theoretical knowledge to substantiate Electronics and Communication Engineering problems, which requires analytical, and/or design and/or experimental effort.
- To develop their own innovative prototype ideas.
- To provide an opportunity to student to get hands on training in the fabrication of one or more components of a complete working model which is designed by them.
- To learn to work as a member of a project team and project management tasks.
- To develop a hardware / software solution for a real – time and industry relevant problem.

Students Outcomes:

At the end of the course, the student will be able to:

- Apply basic science and core engineering knowledge to recognize the real world problems / applications and find suitable solution.
- Design and fabricate the Electronic product and demonstrate the working model.
- Choose latest tool, software, equipment and find the solution by formulating proper methodology to solve the identified problem.
- Plan the resource, manage the time constraints and team spirit to execute the solution.
- Handle any challenging problems and find solution for Product development. Societal Industrial, and Research projects.