ELECTRONIC DESIGN LABORATORY (6th sem)

Course Code:	Contact Hours	Credits	
EE181614	L-0, T- 1, P-4	3	

- 1. Design electronic systems to meet the requirements of society, academia and industry
- 2. Analyze the performance of electronic system after completion of its design
- 3. Write technical report after completion and testing of electronic system

One mini project is carried out in the following mixed or single categories:

Sl.	Title	Topic		
No				
1	Microprocessor	Develop a microprocessor based system for smart home or industrial control		
	based design	industrial control		
2	Microcontroller	Develop a microcontroller based system for smart home or		
	based design	industrial control		
3	FPGA based	Develop a FPGA based system for smart home or industrial		
	design	control: Use Xilinx system		
	m .:			
4	Testing of	gned surveys for outsourcing the developed electronic systems.		
	designed			
	electronic			
	system	including the feedback from the sites of utility		

Electronics Design Lab uses softwares like MATLAB Simulink, Microsim, Proteus, PSPICE, LABVIEW, Xilinx, VHDL, Verilog HDL; and hardwares like Microprocessor based system development kit, Microcontroller based system development kit, FPGA based system development kit like Xilinx and Vivado

RUBRICS FOR ELECTRONIC DESIGN LAB ASSESSMENT

Category	Sub-Category	0-30%	31-60%	61-100%
	Attendance and Preparedness (10%)	The student is present with no development projectwise	The student is present with minimum progress	The student is well prepared and has made significant progress
CONTINUOUS AND COMPREHENSIV E EVALUATION	Weekly Progress review (10%)	No progress	Minimum Progress with partial hardware implementat ion	Satisfactory progress with requisite hardware implementati on and demonstration
RESULT &	Project Completion and demonstration (30%)	Missing several important details	Missing some important details	Details are well covered
ANALYSIS	Reports: (25%)	Results contain errors.	Results are well presented but have some errors	Results are well presented without any corrections.
TEST (Presentation and Viva-Voce)	Final Presentation (using ppt) and Demonstration of the working model and knowledge of related concepts (25%)	Could not present properly and could not answer anything	Mediocre presentatio n could answer partially	Complete presentation and demonstratio n with satisfactory answers to questions