

Course Code: EIPS - 202	
Course Title: Digital Electronics- I lab	
Number of Credits: 03	Total Hours: 84 Total Marks: 75
Prerequisites for the course	
Student should have working knowledge of basic digital electronics.	
Objectives of Course	
Students will be able to understand the basic block of digital electronics. He/she will be able to design different digital electronics circuits.	
Course Content	84 Hours
Expt. 1: Astable multivibrator Expt. 2: Monostable multivibrator Expt. 3: Bi-stable multivibrator Expt. 4: DTL logic gate using transistors Expt. 5: TTL logic gate using transistors Expt. 6: Verification of logic AND, OR, NOR, NAND, EX-ORE and EX-NOR gates Expt. 7: Universal logic gates Expt. 8: Half adder and full adder circuits Expt. 9: Multiplexer/Demultiplexer Expt. 10: Encoder/decoder	
Pedagogy	
Lab experiments/Assignment	
Course Outcome	
Should be able to design and construct digital electronic circuits by identifying different integrated circuits. Plot the graph and analyse the results.	