

Course Code: EIPS - 210	
Course Title: Digital Electronics II Lab	
Number of Credits: 03	Total Hours: 84 Total Marks: 75
Prerequisites for the course	
Should have studied basic level digital electronic subjects. It is assumed that students have a working knowledge of passive and active components and digital circuits	
Objectives of Course	
The objective of this course is to understand advanced digital electronics concept through experiments.	
Course Content	84 Hours
Expt. 1: Design of clocked RS flip-flop Expt. 2: Design of clocked SR flip-flop Expt. 3: Design of D-flip flop Expt. 4: Testing truth table of J-K flip flop Expt. 5: Universal shift register Expt. 6: BCD counter using 74LS90 Expt. 7: 7 segment display using BCD counter Expt. 8: Using ic 0808 demonstrate analog to digital conversion Expt. 9: Interfacing sensor data to AD converter Expt. 10: Demonstrate digital to analog conversion Expt. 11: Application of DA converter for driving electrical load	
Pedagogy	
Lab experiments/assignments	
Course Outcome	
Ability to identify basic requirements for a design application and propose a cost effective solution. To develop skill to build, and troubleshoot digital circuits.	