



Digital Systems

Course Number	EET 201
Course Name	Digital Systems
Credit Value (Breakdown of theory and lab credits)	1.5T+0L
Catalog Course Description	Students will be introduced to digital circuits and will learn Boolean logic, logic gates, combinatorial and sequential circuits. <i>Prerequisite:</i> ENGR 121/L. <i>Co-requisite</i> EET 201L. (1.5, 1.5T+0L)
Student Learning Outcomes/Objectives /Competencies of the Course	<ol style="list-style-type: none"> 1- Describe and use binary and other number system representations such as octal and hexadecimal 2- Describe Boolean logic and applied to logic design 3- Design combinatorial circuits 4- Describe and applied the concept of state machine 5- Design sequential circuits 6- Implement combinatorial and sequential circuits in software and hardware. 7- Develop skill in using VHDL to describe hardware using register transfer methodology 8- Design and prototype simple CPUs using FPGAs
College-Wide Student Learning Outcomes	Critical Thought

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