Ministry of Higher Education and Scinetific Research Thi-Qar University Collage of Engineering Electrical and Electronic Engineering Dept





العدد : التاريخ : / / ٢٠

Course number and name	EE 1500: Digital Logic
Credits and contact hours	3 credits and 4 hours
Course coordinator	
Textbook	Intro to Logic & Computer Design, 1st Edition, Alan Marcovitz, 2008
Course Information	a. Prerequisites: High school mathb. Required
	- Course Introduction and Overview
	- Number systems, arithmetic and codes
Many A	– Digital data formats
	- Digital processing and storage mechanisms in digital devices
	- Binary numbers and base conversions
and the same	– Error correction in digital devices
	- Boolean algebra and combinational logic circuits
	- Minterms and maxterms
Topics to be covered	– Karnaugh maps
	- Important types of combinational logic circuits
	- ROM, PLD and RAM architectures.
II Soffic	- Digital device architectures
	- Sequential logic and flip-flops
	- Classical sequential logic circuit design procedures
101	- Synchronous State Machines
ية والالكترونية	- Counters, stacks and registers
	- Important types of sequential logic circuits