Republic of Iraq
The Ministry of Higher Education
& Scientific Research



University: Anbar College:

Department: Computer Science

Stage:

Instructor name Academic status: Qualification:

Place of work: University of Anbar

Course Weekly Outline

Course Name: Logic Design 2

Course Instructor	د عبد الكريم عبد الحميد الالوسي						
E-mail	Abdulkareem.alaloosy@uoanbar.edu.iq						
Title	استاذ مساعد						
Course Coordinator	د عبد اتلكريم عبد الحميد و م م ختام عبد الباسط						
	ا. أن يفهم الطالب انظمة منطقية وكيفية عملها.						
	ب. أن يعرف الطالب كيف يتم جمع الاعداد بالاجهزة الرقمية.						
	ج. أن يتعرف على كيفية السيطرة وطريقة اختيار طرق نقل						
Course Objective	المعلومة.						
	د. التعرف على النطاطات (flip flop) وكيفية عملها						
	ه. التعرف على تصميم المسجلات وطريقة عملها						
	several types of combinational logic functions are introduced						
Course Description	including adders, comparators, decoders, encoders, code						
	converters,						
	multiplexers (data selectors), demultiplexers, and begins a study						
	of the fundamentals of sequential logic. Bistable, monostable,						
	and astablelogic devices called <i>multivibrators</i> are covered.						
	Digital fundamentals 11 th edition						
Textbook							
	And Fundamentals of logic design						
References	And Fundamentals of logic design						
Course Assessments	Term	Laboratory	Quizzes	Project	Final Exam		
	Tests	-					
	30	10	5	5	50		
	-						
General Notes							

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Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Parallel Binary Adders		
2		Comparators , Decoders Encoders		
3		Code Converters . Multiplexers (Data Selectors). Demultiplexers		
4		Parity Generators/Checkers . Troubleshooting		
5		امتحان الشهر الاول		
6		Latches		
7		Flip-Flops Flip-Flop Operating Characteristics		
8		Flip-Flop Applications . One-Shots		
9		The Astable Multivibrator		
10		Applied Logic		
11		امتحان الشهر الثاني		
12		Types of Shift Register Data I/Os		
13		Bidirectional Shift Registers		
14		Shift Register Counters		
15		Shift Register Applications		

Course Weekly Outline

Instructor Signature: Dean Signature: