

	Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	
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MODULE DESCRIPTOR FORM

Module Information			
Module Title	Logic Design I	Module Type	TYPE C
Module Code	ISLD103	ECTS Credits	6
Module Level	UGI	Semester of Delivery	One
Administering Department	IS	Faculty	CSIT
Module Leader	Muntaser Abdulwahed Salman Abdulaziz	e-mail	Co.montasser.salman@uoanbar.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	PhD.
Module Tutor		e-mail	
Peer Reviewer Name	/	e-mail	/
Review Committee Approval	DD/MM/YY	Version Number	2.0

Relation With Other Modules	
Pre-requisites	/
Co-requisites	/
Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	<ul style="list-style-type: none"> -The student should understand number systems and codes and the conversion between them. -The student should understand the Boolean expression and how to apply it. -The student should recognize among different logic gates and how to use them. -The student should understand how to design a logic circuit. -The student should understand using K-map for simplification.
Module Learning	A-Knowledge and Understanding

Outcomes	<p>A1. The student should understand number systems and codes and the conversion between them.</p> <p>A2. The student should understand the Boolean expression and how to apply it.</p> <p>A3. The student should recognize among different logic gates and how to use them.</p> <p>A4. The student should understand how to design a logic circuit.</p> <p>A5. The student should understand using K-map for simplification</p>
Indicative Contents	
Learning and Teaching Strategies	
Strategies	<p>The main strategy that will be adopted in delivering this module are:</p> <ol style="list-style-type: none"> 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

Module Delivery	
Structured workload (h/w)	6.4
Unstructured workload (h/w)	3.6
Total workload (h/w)	10

Module Evaluation				
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Quizzes	۲	6% (6)	3,7 and 11	
Assignments	2	6% (6)	2 and 12	
Projects / Lab.	1	1۰% (1۰)	Continuous	
Report	1	5% (5)	13	
Midterm Exam	2 hr	18% (18)	7	
Final Exam	3 hr	50% (50)	16	
Total		100% (100 Marks)		

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts		Yes/No
Recommended Texts		Yes/No
Websites		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to number system
Week 2	Conversion between systems
Week 3	Codes and conversion between them
Week 4	Boolean expression
Week 5	Logic gates
Week 6	Logic gates design
Week 7	Mid-Term Exam
Week 8	NAND gates
Week 9	NOR gates
Week 10	Sum of product form
Week 11	Product Of sum form
Week 12	Product Of sum form
Week 13	K-map
Week 14	K-map

Week 15	Preparatory Week
Week 16	Final Exam

APPENDIX:

UNIVERSITY of Anbar				
GRADING SCHEME				
Group	ECTS Grade	% of Students/Marks	Definition	GPA
Success Group (50 - 100)	A - Excellent	Best 10%	Outstanding Performance	5
	B - Very Good	Next 25%	Above average with some errors	4
	C - Good	Next 30%	Sound work with notable errors	3
	D - Satisfactory	Next 25%	Fair but with major shortcomings	2
	E - Sufficient	Next 10%	Work meets minimum criteria	1
Fail Group (0 - 49)	FX – Fail	(45-49)	More work required but credit awarded	
	F – Fail	(0-44)	Considerable amount of work required	
Note:				

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The university has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.