



" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor program - Course Plan Development and Updating Procedures/ Computer Science Department QF01/0407-3.0E

Course Plan for Computer Science (Bachelor Program) No.: (Academic year)Approved by Deans Council by decision (07/72/2016-2017) dated (30/8/2017)(133) Credit Hours

No.	Goals and learning outcomes							
Goal 1	Ability to use the principles of computer science in understanding, implantation and analysis of mathematical problems and							
Goal I	finding their solutions.							
ILO 1.1	Student should understand and analyze mathematical problems							
ILO 1.2	Student should be able to use mathematical concepts in algorithm analysis.							
GOAL 2	Ability to analyze, design and implement efficient and reliable computer programs.							
ILO 2.1	Student should know different programming methods							
ILO 2.2	Student should understand how to build and use computer programs							
ILO 2.3	Student should be able to use different programming languages							
GOAL 3	Knowledge on computer hardware and related software							
ILO 3.1	Student should know the internal computer organization and its components							
ILO 3.2	Student should be able to develop system software							
ILO 3.3	Student should be able to design logic circuits							
GOAL 4	Using practical, scientific and communication skills to enhance team spirit help the local community							
ILO 4.1	Student should maintain life skills and use it to help the community							
ILO 4.2	Student should have self development in continuous education							
ILO 4.3	Student should be able to produce and apply computer applications that comply with local market needs.							
GOAL5	Understanding the technical, ethical, lawful and social responsibilities.							
ILO 5.1	Student should be aware and their rights and duties toward society.							
GOAL6	Ability to understand the principles of software engineering							
ILO 6.1	Student should be able to gather comprehensive software requirements.							
ILO 6.2	Student should be able to analyze software requirements and extract main system components.							
ILO 6.3	Student should be able to verify and validate software.							
GOAL 7	Ability to understand and design computer networks							
ILO 7.1	Student should know the different computer network types.							
ILO 7.2	Student should know the stages of network construction							
ILO 7.3	Student should understand the basics of network security							

Note: G=Goal, ILO= Intended Learning Outcome Assign 3-7 ILOs for each goal





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		1					D	Advertisement
Student's in	formation	Course Course title	Course title		Theory	Practica	Prerequisite Co-	Advertisement
Registered	Registered passed		Course thie	Hours	Hours	l Hours	requisite	Semester/year
	ersity Requ	iirements (2	7) Credit Hours					
A. Man	datory req	uirement (1	5 credit hour)					
		0420101	Military Sciences	3	3	0		1/2
		0420111	Arabic Language (1)	3	3	0	Remedial Arabic Language	1/1
		0420121	English Language (1)	3	3	0	Remedial English Language	1/2
		0420151	National Education	3	3	0		1/1
		0420171	Life Skills	3	3	0		1/1
B. Elec	tives (<u>12</u> cr	edit hours,	minimum 3 credits from each fie	ld)		1		L
Field I. Hu	manitariar	1 courses						
		0420103	History of Jerusalem	3	3	0		1/2
		0420112	Islamic Culture	3	3	0		2/2
		0420131	Principles of Education	3	3	0		1/2
		0420134	Sport and Health	3	2	2		2/2
		0420142	Human Civilization	3	3	0		1/2
		0420152	Introduction to Sociology	3	3			2/2
		0501100	Innovation and Entrepreneurship in Business	3	3	0		2/2
		0601102	Law in Our Life	3	3	0		1/2
Field II. Sc	ientific cou	irse		ч				1
		0120111	Information Technology and Society	3	3	0		1/2
		0120153	Medicinal Plants	3	3	0		1/2
		0301101	First Aid	3	3	0		1/2
		0301102	Fundamental of Nutrition	3	3	0		2/2
		0906100	Principles of Energy Science	3	3	0		2/2





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Second: Fa	Second: Faculty Requirements (21) credit hours							
Studen informat	tion	Course	Course title	Credit	Theory	Practica	Prerequisite Co- requisite	Advertisement Plan
Registered	passe d	number		Hours	Hours	l Hours		Semester/year
		0120117	Introduction to Information Technology	3	3	0	*Remedial computer skills	1/1
		0120126	Principles of Mathematics and Statistics	3	3	0		1/1
		0120110	Principles of Programming	3	2	2	Introductio n to Information Technology	1/2
		0120118	Professional Skills for Scientific Faculties	3	3	0		1/2
		0120261	Web Design	3	2	2	Principles of Programmi ng	
		0120127	Linear Algebra	3	3	0	Principles of Calculus and Statistics	2/1
		0120128	Numerical Analysis	3	3	0	Principles of Calculus and Statistics	3/2
		rements (82) o			•	-	•	
A. M	landatory	Major requi	rements (30) credit hours				Introductio	
		0112111	Discrete Mathematics	3	3	0	n to Information Technology	1/2
		0112231	Digital Logic Design	3	3	0	Discrete Mathematic s	2/1
		0112221	Object Oriented Programming	3	2	2	Principles of Programmi ng	2/1
		0112212	Data Structure	3	3	0	Object Oriented Programmi ng	2/2
		0112232	Computer Organization and Design	3	3	0	Digital Logic Design	2/2
		0112313	Algorithms	3	3	0	Data Structure	3/1
		0112322	Visual Programming	3	2	2	Database (1)	3/1
		0112323	Web Applications Programing	3	2	2	Web Design	3/1
		0112333	Operating Systems	3	3	0	Computer Organizatio n and Design	3/2
		0112434	Embedded Systems	3	3	0	Operating Systems	4/1



جامعة الزيتونة الأردنية Al-Zaytoonah University of Jordan كلية العلوم وتكنولوجيا المعلومات Faculty of Science and information Technology



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C	Course Plan fo	or Bachelor	program - Course Plan Develo Computer Science Departi		d Updating	Proced	ures/	and Quality" F01/0407-3.0E
E	B. Mandatory Minor Requirements (31) Credit Hours							
		0112251	Database (1)	3	2	2	Object Oriented Programmi ng	2/2
		0112214	Computational Theory	3	3	0	Discrete Mathematic s	2/2
		0112334	Computer Architecture	3	3	0	Computer Organizatio n and Design	3/1
		0112353	Systems Analysis and Design	3	3	0	Database (1)	3/2
		0112342	Data Communications and Security	3	3	0	Computer Networks	3/2
		0112325	Programming Database Systems	3	2	2	Database (1)	3/2
		0112424	Mobile Applications Programming	3	2	2	Visual Programmi ng	4/1
		0112433	Special Programming Language	3	2	2	Visual Programmi ng	4/2
		0112471	Preparing and Documenting Computerized Projects	1	0	2	Department Approval	4/1
		0112415	Artificial Intelligence	3	3	0	Algorithms	4/2
		0112472	Project	3	3	0	Department Approval	4/2
(C. Major sup	porting requi	rements (12) credit hours		1			
		0114251	Software Engineering Principles	3	3	0	Introductio n to Information Technology	2/1
		0122141	Computer Networks	3	3	0	Introductio n to Information Technology	2/2
		0113353	Information Security	3	3	0	Algorithms	3/2
		0122343	Networks Programming	3	2	2	Visual Programmi ng	4/1
Ι). Major elec	ctives (9) credi	it hours		1			
		0112384	Multimedia Tools	3	2	2	Object Oriented Programmi ng	3/2
		0112462	Computer Graphics	3	2	2	Linear Algebra	3/2
		0112352	Database (2)	3	2	2	Database (1)	3/2
		0112461	Image Processing	3	2	2	Linear Algebra	4/1
		0112456	Information Systems Development	3	2	2	Systems Analysis and Design	4/1
		0112482	Special Topics in CS (1)	3	2	2	Department Approval	4/1
		0112435	Internet of Things	3	3	0	Data Communic ations and	4/2





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Co	Course Plan for Bachelor program - Course Plan Development and Updating Procedures/ Computer Science Department								
							Security Visual Programm		
		0112483	Special Topics in CS (2)	3	2	2	Departm Approva	4/2	
		0112430	Operational Research	3	3	0	Linear Algebra	4/2	
Fourth	Courth: free electives (3) Credit Hours								

lectives (3) Credit Hours Fourth:

(Student may choose any course from any course plan at the university unless the student had passed it previously)

Co-requisite *

Courses Given to Other Majors)

Course number	Course title	Credit hours	Type of requirement (University Requirements, Faculty Requirements, Supporting Requirements)
0112231	Digital Logic Design	3	Supporting Requirements for Computer Information Technology/Computer Information Technology
0112333	Operating Systems	3	Supporting Requirements for Software Engineering/Software Engineering
0112251	Database (1)	3	Supporting Requirements for Computer Science/Computer Networks & Computer Science/ Multimedia Systems
0112111	Discrete Mathematics	3	
0112231	Digital Logic Design	3	
0112221	Object Oriented Programming	3	
0112212	Data Structure	3	
0112232	Computer Organization and Design	3	Mandatory Major Requirements for Computer Science
0112313	Algorithms	3	Family.
0112322	Visual Programming	3	
0112323	Web Applications Programing	3	
0112333	Operating Systems	3]
0112434	Embedded Systems	3	