



Document Code	Study Blon	Document Approval Date
AP 02-PR04	Study Plan	

Department: Computer Science	Program: Computer Science	Official Stamp
The study plan was approved by the	decision of the Deans' Council no on	Official Staffip

Overview

The Department of Computer Sciences was established in 1978 and started offering a B.Sc. degree in Computer Science in 1980. At the beginning of the academic year 2002/2003 the Faculty of Information Technology and Computer Sciences was established, and the Department of Computer Science was moved to this new faculty. The curriculum has been modified accordingly to keep pace with changes and developments taking place locally and internationally in order to raise the level of academic graduates and to provide them with the skills and techniques that qualify them to be competitive in the market. The department of Computer Science offers two master's programs: the mater's program in Computer science that was established in 2000 and the master's program in Artificial Intelligence that was established in 2019. Both master's programs were designed to provide advanced theoretical and technical skills.

	Vision and Mission
Vision	Deliver leading and entrepreneur educational program in Computer Science area that is recognized locally, regionally and globally.
Mission	Providing students with the necessary skills, knowledge, and competences to solve complex computing problems using distinguished teaching and learning process.

	Program Objective					
1	Be successfully employed, pursue a graduate degree, or continue their professional education.					
2	Apply their skills in clear communication and demonstrate professional attitudes and ethics to be identified as a valuable member in the organization and demonstrate adaptability, responsibility, and leadership.					
3	Demonstrate an understanding of the context and broader impacts of technology in their organization and have the ability to adapt to a rapidly changing environment.					

	Program Learning Outcomes PLOs				
PLO1	Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.				
PLO2	Design implement and evaluate a computing-based solution to meet a given set of				





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PLO3	Communicate effectively in a variety of professional contexts.		
PLO4	Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.		
PLO5	Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.		
PLO6	Apply computer science theory and software development fundamentals to produce computing-based solutions.		





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Credit hours to obtain a degree in Information Technology and Computer Sciences in a specialization of Computer Science						
	Credit Hours					
	Compulsory Elective Total					
University Requirements	15	12	27			
Faculty Requirements	22	0	22			
Department Requirements	70	85				
Total	134					

First: University C	First: University Compulsory Courses (15) Credit Hours					
Carrier Carla	Course		Number of Credit Hours			Pre-
Course Code	No.	Course Name	Theoretical	Practical	Total	requisite
HUM	117	Pioneering and Creativity	1	0	1	
HUM	118	Leadership and Society	1	0	1	
HUM	119	Life Skills	1	0	1	
ним	120	Communication Skills (English Language)	3	0	3	EL099
HUM	121	Communication Skills (Arabic Language)	3	0	3	
PS	102	Political Sciences	3	0	3	
MILT	100A	Military Sciences	3	0	3	
EL	099	English Language – Remedial	Remedial	0	0	
AL	099	Arabic Language – Remedial	Remedial	0	0	
СОМР	099	Computer Skills – Remedial	Remedial	0	0	





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Second: University Elective Courses (12) Credit Hours								
Course	Course	Course Name	Number of Credit Hours		Number of Credit Hours			Pre-
Code	No.	Course Name	Theoretical	Practical	Total	requisite		
ним	101	Basic of Mass Communication	3	0	3			
HUM	102	Citizenship and Allegiance	3	0	3			
ним	103	Islamic: Intellect & Civilization	3	0	3			
HUM	104	Arts and Behaviours	3	0	3			
ним	105	Jordan Contribution to Human Civilization	3	0	3			
ним	106	Introduction to Human Cultural Studies	3	0	3			
HUM	107	Human Rights	3	0	3			
HUM	108	Thinking Skills	3	0	3			
HUM	109	Islamic Systems	3	0	3			
ним	110	The Culture of Tourism and Hospitality	3	0	3			
HUM	111	History of Jerusalem	3	0	3			
HUM	112	Geography of Jordan	3	0	3			
ним	113	Islamic Educational Thinking	3	0	3			
ним	114	Good Governance and Integrity	3	0	3			
HUM	115	Legal Education	3	0	3			
HUM	116	Ancient writings of Jordan	3	0	3			
HUM	122	Economy and Society	3	0	3			
HUM	123	Performing Arts	3	0	3			
SCI	101	Environment & Public Health	3	0	3			
SCI	103	Physical Education for All	3	0	3			
SCI	104	Effective Communication Skills	3	0	3			
SCI	105	Renewed Energy	3	0	3			
SCI	106	Management and Society	3	0	3			





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		Development				
SCI	107	Scientific Research	3	0	3	
SCI	110	Development and environment	3	0	3	
SCI	111	Principle of Epidemiology and Community Immunity	3	0	3	

Third: Faculty Co	Third: Faculty Compulsory Courses (22) Credit Hours							
Carrier Carla	Carrier Na	Carriera Nama	Numbe	er of Credit H	lours	_		
Course Code	Course No.	Course Name	Theoretical	Practical	Total	Pre-requisite		
cs	111	Programming in a Selected Language	3	0	3			
CS	111L	Programming in a Selected Language Lab	0	3	1	CS111		
MATH	101	Calculus 1	3	0	3			
CIS	101	Introduction to Information Systems	3	0	3			
CIS	260	Database Systems	3	0	3	CS 210, CIS 101		
STAT	111	Introduction to Probability (1)	3	0	3			
BIT	221	Legal Issues in Information Technology	3	0	3	CYS 230		
ВІТ	381	Web Application Development (1)	3	0	3	CIS 260		

Fourth: Department Compulsory Courses (70) Credit Hours						
Course Code	Course	Caurea Nama	Number of Credit Hours			Pre-
Course Code No.		Course Name	Theoretical	Practical	Total	requisite





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CS		Operating	3	0	3	
	130	Systems				CS111
		Fundamentals				
CS	4.40	Discrete	3	0	3	MATH 101
	142	Structures				
CS	24.0	Object-Oriented	3	0	3	00111
	210	Programming				CS111
CS		Object-Oriented	0	3	1	66240
	210L	Programming				CS210,
		(Lab)				CS111L
CS	220	Computer Logic	3	0	3	CS 142
	220	Design				
CS		Computer	0	3	1	CS 220
	225	Organization				
		Lab				
CS	250	Data Structures	3	0	3	CS 210
CC	201	Multimedia	2	0	2	CIS 101, CS
CS	281	Systems	3		3	210
CS	210	Advanced	3	0	3	CS 210
	310	Programming				
CS		Data	3	0	3	CYS 230
	332	Communications				
		and Networks				
CS		Data	0	3	1	CS 332
	332L	Communications				
	332L	and Networks				
		Lab				
CS	342	Theory of	3	0	3	CS 142
	342	Computation				
CS		Analysis and	3	0	3	CS 250 , CS
	351	Design of				142
		Algorithms				
CS	376	Artificial	3	0	3	CS 351
	3/0	Intelligence				
CS		Smart Phones	3	0	3	CS 130 ,CS
	411	Apps				310
		Development				
CS	432	Computer	3	0	3	CS 225
	434	Architecture				
CS	499A	Graduation	0	0	0	Complete 90





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		Project A				credits
CS		Graduation	3	0	3	CS 499A
	499B	Project B	J			C3 13371
CIS		Introduction to	3	0	3	CIS 101, CS
0.0	240	Software				210
		Engineering				
CIS		Visual	3	0	3	CIS 101 ,CS
	214	Programming				210
CIS	242	Systems Analysis	3	0	3	CIS 240 ,CIS
	342	and Design				260
BIT		Web	3	0	3	BIT 381
	481	Applications				
		Development (2)				
MATH	102	Calculus 2	3	0	3	MATH 101
MATH	244	Linear Algebra	3	0	3	MATH 101
	241	(1)				
CYS	220	Cyber Security	3	0	3	CS 111
	230	Principles				
PHYS	PHYS	General Physics-	3	0	3	
	101	1				
PHYS	105	General Physics-	0	3	1	PHYS 101
	105	1 Lab				

Fifth: Department Elective Courses (9) Credit Hours							
Course Code	Course No.	Course Name	Numbe	er of Credit H	ours	Due ve ve ieite	
Course Code	Course No.	Course Name	Theoretical	Practical	Total	Pre-requisite	
CS	331	Operating Systems	3	0	3	CS 130	
CS	360	Wireless Networks	3	0	3	CS 332	
CS	380	Computer Graphics	3	0	3	CS 250 MATH 241	
CS	453	Problem Solving	3	0	3	CS 351	
CS	470	Expert Systems	3	0	3	CS 376	





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CS	480	Image Processing	3	0	3	CS 376
CS	492	Special Topics	3	0	3	Complete 90 Credits
CS	497	Certificate of training*	3	0	3	
CS	498	Practical Training	3	0	3	Complete 90 Credits and Department approval

^(*) Equivalent to an accredited international certificate in one of the fields of specialization approved by the department according to special foundations

Sixth: Departmen	Sixth: Department Elective Courses (3) Credit Hours— Faculty of IT							
Course Code	Course	Course Name -	Number of Credit Hours			Pre-		
Course Code	No.		Theoretical	Practical	Total	requisite		
BIT	222	Entrepreneurship in IT	3	0	3	CIS 101		
CIS	467A	Data Mining	3	0	3	CIS 260		
CIS	382	Cloud Computing	3	0	3	CS 332, CIS 260		

Seventh: Department Elective Courses (3) Credit Hours – Faculty of Science											
Course Code	Course No.	Course Name	Number of Credit Hours			Due vervieite					
			Theoretical	Practical	Total	Pre-requisite					
STAT	101	Introduction to Statistics (1)	3	0	3						
STAT	211	Introduction to Probability (2)	3	0	3	STAT 111 and MATH 102					
МАТН	322	Numerical Analysis (1) (For IT Students)	3	0	3	CS 142					





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		Mapping of Program Learning Outcomes PLOs						
No.	Course Code and number	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	
1	CS 111	×	×					
2	CS 111L		×	×				
3	CS 130	×		×				
4	CS 142	×						
5	CS 210	×	×					
6	CS 210L		×	×				
7	CS 220	×		×				
8	CS 225			×	×			
9	CS 250		×		×			
10	CS 281		\boxtimes	×		×		
11	CS 310					×	×	
12	CS 332				×		×	
13	CS 332 L		×	×	×			
14	CS 342		×					
15	CS 351	×	×				×	
16	CS 352		×				×	
17	CS 376					×	×	
18	CS 411				×	×	×	
19	CS 331					×	×	
20	CS 360				\boxtimes	×	×	
21	CS 380			×		×	×	
22	CS 452			×	×		×	
23	CS 470				×	×	×	
24	CS 480				×	×	×	
25	CS 492			×	×		×	
26	CS 498			×	×	×	×	