

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

Department: Information Systems	Program: Computer Information Systems	Official Stamp

The study plan was approved by the decision of the Deans' Council no. on

About the Program

The Department of Information Systems (IS) formerly "The Department of Computer Information Systems" was established in the academic year 2002/2003 as part of the Faculty of Information Technology and Computer Sciences. The department offers a bachelor's degree in CIS which provides promising employment opportunities in business, industry and the area of Information Technology. In 2019, the department has reviewed the curriculum for the bachelor's degree and a new comprehensive and emergent curriculum has been approved. IS department offers a mater's program in Computer Information Systems, which provides advanced theoretical and practical skills in this discipline.

	Vision and Mission						
Vision	To achieve a leading and distinctive position among Information Systems (IS) departments of other local and regional universities.						
Mission	Providing local and regional markets with competent and qualified graduates equipped and endorsed with the needed knowledge and necessary technical and soft skills in order to enable them to overcome variety of information systems-related challenges by empowering students with exceptional practical and theoretical courses. The IS department also works on providing positive, informative, and pioneer learning environment which helps to hone the character of our graduates and to contribute in shaping individuals' personalities to build information society. Yarmouk University's IS department envisions an abundance of world-class research that contributes in enhancing information systems research community and provides continuous support in building skillset for academic staff and students.						

	Program Objectives					
1	Obtain a successful professional career in industry, academia, or any related field where they meet or exceed expectations					
2	Utilize and apply the knowledge acquired by the program such as the problem-solving skills, critical thinking skills, communications skills and technical computer skills including but not limited to web domains, cloud computing and data sciences to make informed, responsible, and risk-aware decisions in the workplace.					
3	Employ professional and educational skills taught in the CIS program to make a positive impact on society.					

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	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 computing requirements in the context of the Computer Information Systems.				
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 Computer Information Systems.				
PLO6	Support the delivery, use, and management of information systems within an information systems environment.				
PLO7	Design, implement, and use of data management, analysis and retrieval solutions.				





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Credit hours to obtain a degree in Information Technology and Computer Sciences in a specialization of Computer Information Systems						
		Credit Hours				
	Compulsory Elective Total					
University Requirements	15	12	27			
Faculty Requirements	22	0	22			
Department Requirements	67	18	85			
Total	104	30	134			

First: University C	First: University Compulsory Courses (15) Credit Hours					
Course Code	Course	Course Name	Numbe	Number of Credit Hours		
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	-
HUM	120	Communication Skills (English Language)	3	0	3	-
HUM	121	Communication Skills (Arabic Language)	3	0	3	-
PS	102	Civil Education	3	0	3	-
MILT	100A	Military sciences and citizenship	3	0	3	-
EL	099	English Language Skills- 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: Universit	Second: University Elective Courses (12) Credit Hours								
	Course		Numbe	Number of Credit Hours			Number of Credit Hours		
Course Code	No.	Course Name	Theoretical	Practical	Total	requisite			
HUM	101	Basic of Mass Communication	3	0	3	-			
HUM	102	Citizenship and Allegiance	3	0	3	-			
HUM	103	Islamic: Intellect & Civilization	3	0	3	-			
HUM	104	Arts and Behaviours	3	0	3	-			
HUM	105	Jordan Contribution to Human Civilization	3	0	3	-			
HUM	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	-			
HUM	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	-			
HUM	113	Islamic Educational Thinking	3	0	3	-			
HUM	114	Good Governance and Integrity	3	0	3	-			
HUM	115	Legal Education	3	0	3	-			

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						1	
HUM	116	Ancient writings of	3	0	3	-	
		Jordan					
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 Development	3	0	3	-	
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 Compulsory Courses (22) Credit Hours								
Course Code	Course No.	Course Name	Numbe	er of Credit H	lours	Due versielte		
Course Code	course no.	Course Marine	Theoretical	Practical	Total	Pre-requisite		
CS	111	Programming in a selected Language	3	0	3	-		
CS	111L	Programming in a selected	0	3	1	CS 111		

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		Language (Lab)				
MATH	101	Calculus I	3	0	3	-
CIS	101	Introduction to Information System	3	0	3	-
CIS	260	Database Systems	3	0	3	CS 210 and CIS 101
STAT	111	Introduction to Probability (1)	3	0	3	-
ВІТ	221	Legal Issues in Information Technology	3	0	3	CYS 230
BIT	381	Web Application Development (1)	3	0	3	CIS 260

Fourth: Departme	Fourth: Department Compulsory Courses (67) Credit Hours					
Course Code	Course		Numbe	er of Credit H	lours	Pre-
Course Code	No.	Course Name	Theoretical	Practical	Total	requisite
CIS	214	Visual Programming	3	0	3	CIS 101 & CS 210
CIS	240	Introduction to Software Engineering	3	0	3	CIS 101 & CS 210
CIS	260L	Database Systems Lab	0	3	1	CIS 260
CIS	265	Database Management System	3	0	3	CIS 260
CIS	340	Object Oriented Analysis and Design	3	0	3	CIS 240
CIS	340L	Object Oriented	0	3	1	CIS 340

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AP 02-PI							
		Analysis and					
		Design Lab					
CIS	342	System Analysis	3	0	3	CIS 240 &	
		and Design	_			CIS 260	
010	262	Developing	2				
CIS	360	Database	3	0	3	CIS 260	
		Applications					
CIS	367	Data	3	0	3	CIS 260	
		Warehousing Cloud				CIS 260 & CS	
CIS	382	Computing	3	0	3	332	
		Software				552	
CIS	440	Testing and	3	0	3	CIS 340L	
		Validation	C			0.00.00	
		Information					
CIS	464	Retrieval	3	0	3	CIS 260	
		Systems					
CIS	467A	Data Mining	3	0	3	CIS 260	
	467L	Information				CIS 467A or	
CIS		retrieval and	0 3	1	together		
		Mining Lab				_	
CIS	468	Big Data	3 0	0	3	CIS 467A &	
		Management		_		CIS360	
CIS	499	Graduation	3	0	3	Complete 98	
		Project				CHs	
CS	142	Discrete	3	0	3	MATH 101	
		Structures Object					
CS	210	Oriented	3	0	3	CS 111	
65	210	Programming	5	0	5	0.5 111	
		Object					
		Oriented				CS 210 & CIS	
CS	210L	Programming	0	3	1	111L	
		(Lab)					
CS	250	Data Structures	3	0	3	CS 210	
		Data	3	0	3		
CS	332	Communication				CYS 230	
		and Networks					

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CS	351	Analysis and Design of	3	0	3	CS 250 & CS 142	
CYS	230	Algorithms Cyber Security Principles	3	0	3	CS 111	
CYS	334	Network security	3	0	3	CS 332	
BIT	364	Systems and Projects Management	3	0	3	CIS 260	

Fifth: Departmen	Fifth: Department Elective Courses (9) Credit Hours						
Course Code	Course No.		Numbe	er of Credit H	ours		
Course Code	Course No.	Course Name	Theoretical	Practical	Total	Pre-requisite	
		Human	3		3	CS 210L	
CIS	227	Computer Interaction		0			
CIS	241	Software Documentation	3	0	3	CIS 240	
CIS	256	File Structures	3	0	3	CS 250	
CIS	370	Intelligent Systems and Internet of Things	3	0	3	CS 210 & CS 332	
CIS	380	Information System Applications	3	0	3	CS 360	
CIS	441	Software Quality Assurance	3	0	3	CIS 440	
CIS	472	Applied Data Mining	3	0	3	CIS 467A	
CIS	480	Distributed Systems Applications	3	0	3	CS 332 & BIT 381	
CIS	492	Special Topics	3	0	3	CIS 360	

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CIS	497	Training Certificate (*)	3	0	3	
		Practical	3		3	Complete 98
CIS	498	Training		3		CHs
						successfully

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

Sixth: Department Elective Courses (6) Credit Hours- Faculty of IT						
Course Code	Course	Course Name	Numbe	er of Credit H	lours	Pre-
Course Code	No.	Course Name	Theoretical	Practical	Total	requisite
CS	281	Multimedia Systems	3	0	3	CIS 101 & CS 210
CS	376	Artificial Intelligence	3	0	3	CS 351
BIT	222	Entrepreneurship in IT	3	0	3	CIS 101
BIT	481	Web Application Development (2)	3	0	3	BIT 381

Seventh: Department Elective Courses (3) Credit Hours – Faculty of Science						
Course Code	Course No.	Course Name	Numbe	Number of Credit Hours		
Course Code	Course No.	Course Name	Theoretical	Practical	Total	Pre-requisite
MATH	241	Linear Algebra (1)	3	0	3	MATH 101
MATH	322	Numerical Analysis (1) (for IT Students)	3	0	3	CS 142
STAT	101	Introduction to Statistics (1)	3	0	3	





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		Mapping of Program Learning Outcomes PLOs						
No.	Course Code and number	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
1	CIS 101	\boxtimes			\boxtimes		\boxtimes	\boxtimes
2	CIS 214		\boxtimes					
3	CIS 240	\boxtimes	\boxtimes		\boxtimes			
4	CIS 260		\boxtimes				\boxtimes	\boxtimes
5	CIS 260L		\boxtimes					\boxtimes
6	CIS 265	\boxtimes			\boxtimes		\boxtimes	\boxtimes
7	CIS 340	\boxtimes	\boxtimes					
8	CIS 340L	\boxtimes	\boxtimes					
9	CIS 342	\boxtimes	\boxtimes					
10	CIS 360		\mathbf{X}			\mathbf{X}	\boxtimes	\boxtimes
11	CIS 367							\boxtimes
12	CIS 464						\boxtimes	\boxtimes
13	CIS 467A							\boxtimes
14	CIS 467L	\boxtimes	\boxtimes					\boxtimes
15	CIS 382	\mathbf{X}						
16	CIS 227		\mathbf{X}		\mathbf{X}		\boxtimes	
17	CIS 241	\boxtimes	\boxtimes					
18	CIS 256	\boxtimes	\boxtimes					\boxtimes
19	CIS 370	\mathbf{X}	\mathbf{X}		\mathbf{X}	\mathbf{X}	\boxtimes	\boxtimes
20	CIS 380	\boxtimes		\boxtimes		\boxtimes	\boxtimes	\boxtimes
21	CIS 441	\boxtimes					\boxtimes	\boxtimes
22	CIS 472	\boxtimes						\boxtimes
23	CIS 480	\boxtimes	\boxtimes		\boxtimes	\boxtimes	\boxtimes	
25	CIS 498		\boxtimes	\boxtimes	X	\boxtimes	\boxtimes	\boxtimes
26	CIS499	\mathbf{X}	\mathbf{X}	\mathbf{X}	\mathbf{X}	\mathbf{X}	\boxtimes	\boxtimes

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