

The Hashemite University
Computer Science and Application Program (CSA)
Advisory Plan

First Year								
First Semester					Second Semester			
Course Code	Course Title	C.Hr.	Prerequisites		Course Code	Course Title	Credit Hours	Prerequisites
1910011100	Introduction to Programming	3	-		1910011110	Object Oriented (1)	3	1910011101
1910011101	Introduction to Programming Lab	1	w.1910011100		1910011111	Object Oriented (1) Lab	1	w.1910011110
110101152	Discrete Mathematics	3	-		1910011123	Digital Logic Design	3	110101152
110108101	Calculus (1)	3	-		110108103	Statistics (1)	3	-
2116011101	Arabic Communication Skills	3	121601099		110101102	Calculus (2)	3	110108101
2114041125	Life Skills	2	-		2116021101	English Communication Skills	3	121602099
					2114041123	Leadership and Social Responsibility	2	-
	Total	15				Total	18	
Second Year								
First Semester					Second Semester			
Course Code	Course Title	C.Hr.	Prerequisites		Course Code	Course Title	Credit Hours	Prerequisites
151001250	Data Structures	3	1910011111		1910011214	Visual Programming	3	1910011110
191001212	Object Oriented (2)	3	1910011110		1910011215	Visual Programming Lab (1)	1	w.1910011214
191001213	Object Oriented (2) Lab	1	w.1910011212		191002240	Introduction to Database Systems	3	151001250
151003260	Fundamentals of Software Engineering	3	1510011110		191002241	Introduction to Database Systems Lab	1	w.151002240
1910011240	Theory of Computation	3	110101152		110101241	Linear Algebra (1)	3	-
1714041118	National Education	3	-		1714041117	Military Science	3	-
2210041132	Entrepreneurship and Innovation	2	-			CSA Elective (1)	3	
	University Elective (1)	3	-					
	Total	21			Total	17		
Third Year								
First Semester					Second Semester			
Course Code	Course Title	C.Hr.	Prerequisites		Course Code	Course Title	Credit Hours	Prerequisites
151002310	Programming of Internet Applications	3	1510011110 OR		151002471	Information Systems Security	3	151002240
2010042220	Fundamentals of Artificial Intelligence	3	1910011250		19100011320	Computer Networks	3	1910011123
110408240	Computer Design and Organization	3	110408220 OR		1910011431	Operating Systems	3	1910011123
1910011351	Algorithms	3	1910011250		110101408	Numerical Methods	3	1110011110 AND 110101241
	CSA Elective (2)	3			110408343	Fundamentals of Computer Architecture	3	110408240
	University Elective (2)	3	-			University Elective (3)	3	-
	Total	18				Total	18	
Fourth Year								
First Semester					Second Semester			
Course Code	Course Title	C.Hr.	Prerequisites		Course Code	Course Title	Credit Hours	Prerequisites
1910011423	Parallel and Distributed Computing	3	1910011320		1910011491	Applied Project (2)	2	1910011490
1701081136	General Physics (1)	3	-		110102102	General Physics (2)	3	1701081136
110102103	General Physics Laboratory (1)	1	w.1701081136		1910011480	Practical Training	3	-
151002470	System Analysis and Design	3	151002240			CSA Elective (4)	3	
1910011490	Applied Project (1)	1	-					
	CSA Elective (3)	3						
	Total	14				Total	11	

Total Credit Hours	132
18	University Compulsory
9	University Elective
22	Faculty Compulsory
71	Specialization Compulsory
12	Specialization Elective