

**Academic Guidance Plan  
2021/2022  
Computer Science Department**

Year	Semester	Module Number	Module Title	Prerequisites	
First	First (18 Credit Hours)	0750113	Programming Fundamentals (1)	-----	
		0731110	Introduction to Information Systems and Technology	-----	
		0114103	Communication skill (Arabic language)	0114099	
		-----	University Elective (1)	-----	
		0130107	Communication skills (English 1)	0130099	
		0250101	Calculus (1)	----	
	Second (18 Credit Hours)	0111101	National Education	-----	
		0750120	Discrete Mathematic	0750099	
		0750114	Programming Fundamentals (2)	0750113	
		0130108	Communication skills (English 2)	0130107	
		-----	University Elective (2)	-----	
		0721111	Software Engineering Fundamentals	0731110	
Second	First (18 Credit Hours)	0721250	Computing Ethics and technical writing	0750114	
		0721223	Object-Oriented Programming	0750114	
		0731213	Introduction to Web Programming	0750113	
		0750230	Digital Logic Design	0731110	
		0750272	Numerical Analysis	0750114	
		0750224	Theory of computation	0750120	
	Second (18 Credit Hours)	0721224	Data Structures	0721223	
		0731221	Database Fundamentals	0721223	
		0750215	Visual Programming	0721223	
		0250231	Introduction to Statistics and Probabilities	-----	
		0750233	Computer Organization and Design	0750230	
		0250241	Linear Algebra (1)	0250101	
Third	First (16 Credit Hours)	0721345	Mobile computing technology	0731213	
		0750332	Computer Architecture	0750233	
		0750323	Algorithms	0721224	
		0731321	Systems Analysis and Design	0731221	
		0750352	Data Science and Artificial Intelligence	0750114	
		0330103	Leadership and innovation	-----	
	Second (16 Credit Hours)	0731340	Computer Networks Fundamentals	0721224	
		0750335	Operating Systems	0750332	
		0750362	Database Applications Programming	0731221	
		0750324	Computer Architecture	0750224	

		0115102	Leadership and social responsibility	-----	
		0750398	Practical Training	90 hours	
<b>Fourth</b>	<b>First (13 Credit Hours)</b>	-----	Department Elective (1)		
		0111100	Military Sciences (Or UE Non-Jordanians Students)	-----	
		0750472	Modelling and Simulation	0750272	
		0750497	Research Project 1	90 hours	
		-----	Department Elective (2)	-----	
	<b>Second (15 Credit Hours)</b>	0170101	Life Skills	-----	
		0750436	Cloud Computing Applications		
		-----	University Elective (3)		
			Department Elective (3)	-----	
		0790423	Information Security Risks Management	0790422	
		0750498	Research project 2	0750397	