

Study Plan of the Program of Computer Science

Course ID	Course Title	Credit Hours	Contact Hours	Pre-requisite
First Year: First Term				
11030118	English Language 1	3	9	None
31041103	Calculus 1	4	4	None
41011151	Programming Basics	3	4	None
11010101	Islamic Education 1	2	2	None
41011153	Introduction to Information Technology and Communications	3	3	None
First Year: Second Term				
11030218	English Language 2	3	9	11030118
31031104	Physics 1	4	5	None
41011152	Introduction to Problems and Algorithms	3	3	None
41011154	English Language for Special Purposes	2	2	None
11020107	The Holy Quran	2	2	None
41011156	Scientific Programming	3	4	None
Second Year: First Term				
41021231	Advanced Programming	3	4	41011156
41011221	Database	3	4	41011153
41012213	Digital Logic Design	3	4	None
41011212	Discrete Structures	3	3	None
41021211	Foundations of Information Systems	3	3	41011153
41010132	Probability and Statistics	3	4	None
Second Year: Second Term				
41011312	Computer Organization and Architecture	3	3	41012213 or 41011153
41011327	Web Development	3	4	41021231
41011234	Matrices and Linear Algebra	3	3	None
41021266	Data Structures and Algorithms	3	4	41011152
41021268	Data and Computer Communications	3	4	41011153
11020204	Health Education	1	1	None
Third Year: First Term				
41011324	Intelligent Systems	3	4	41021231
41021373	Advanced Web Development	3	4	41011327
41011314	Operating Systems	3	4	41011153
41011313	Software Engineering	3	4	41021231
41021379	Object Oriented Programming	3	4	41021231

11010117	Islamic Education 2 (Islamic Civilization)	2	2	none
Third Year: Second Term				
41011325	Mobile Computing and Applications	3	4	41021231
41011321	Human Computer Interaction	3	4	41021231
41011213	Computer Networks	3	4	41011156 or 41021268
41011323	Computer Graphics	3	4	41011234 And 41021231
11010112	Essay and Research Writing Skills	2	2	Earned 70 CH
410xxxxx	Elective 1	3	Review elective courses table	
Fourth Year: First Term				
41011411	Senior Project for CS 1	3	3	41011313 And Earned 85CH
41011423	Compiler Design and Theory	3	4	41021266 And 41011314
41011422	Information Security and Privacy	3	3	None
41021425	Data Visualization	3	4	٤١.١١١٥٦ 41011156
41021427	Innovation, Design and Prototyping	3	3	None
410xxxxx	Elective 2	3	Review elective courses table	
Fourth Year: Second Term				
41011421	Senior Project for CS	3	3	41011411
41011412	Parallel and Distributed Computing	3	4	41011213
41021428	Ethics in Computing and Professional Issues	3	3	None
41011616	Selected Topics in Computer Science	3	4	None
410xxxxx	Elective 3	3	Review elective courses table	
410xxxxx	Elective 4	3	Review elective courses table	
Electives				
Track 1: Artificial Intelligence				
41011614	Recommender Systems	3	4	41011324
41021901	Natural Language Processing	3	4	41011324
41021903	Machine Learning	3	4	41011324
41021905	Agents, Knowledge and Data	3	4	41011324
Electives				
Track 1: Artificial Intelligence				
41021902	Network Administration	3	4	41011213

41021904	Advanced Network Routing	3	4	41011213
41021906	Advanced Switching	3	4	41011213
41021908	Design and Management of Networking	3	4	41011213