



Acad. Year	First Semester (5 Courses)						Second Semester (5 Courses)					
	Course Code	Course Name	Pre-req.	Hours			Course Code	Course Name	Pre-req.	Hours		
				Cr	Th	Pr				Cr	Th	Pr
1	0814132	Physics	----	4	3	2	0603103	Business and Accounting	1722111	3	3	0
	0827111	Calculus	----	3	3	0	0826152	Biology	----	3	3	0
	0921110	Introduction to Computing	----	4	3	3	0827121	Probability and Statistics	0827111	3	3	0
	1722111	Academic English	----	3	3	0	0827122	Discrete Mathematics	0827111	3	3	0
	1900101	Creed and Doctrines	----	2	2	0	0921120	Fundamentals of Programming	0921110	4	3	3
	Total			16	14	5	Total			16	15	3
Acad. Year	First Semester (5 Courses)						Second Semester (5 Courses)					
	Course Code	Course Name	Pre-req.	Hours			Course Code	Course Name	Pre-req.	Hours		
				Cr	Th	Pr				Cr	Th	Pr
2	0921210	Object Oriented Programming(1)	0921120	4	3	3	0921220	Fund. of Software Engineering	0921120	4	3	3
	0921211	Data Structure and Algorithms	0921120 0827122	4	3	3	0921221	Language Theory and Finite Automata	0921212	3	3	0
	0921212	Linear Algebra	0827122	3	3	0	0922222	Database Concepts and Design	0921211	4	3	3
	0924214	Fund. of Computer Networks	0921110	4	3	3	0923223	Digital Logic and Design	0814132	4	3	3
	1900102	Islamic Culture	----	2	2	0	0921224	Mathematics for CS	0921212	3	3	0
	Total			17	14	9	Total			18	15	9
Acad. Year	First Semester (5 Courses)						Second Semester (5 Courses)					
	Course Code	Course Name	Pre-req.	Hours			Course Code	Course Name	Pre-req.	Hours		
				Cr	Th	Pr				Cr	Th	Pr
3	0921310	Object Oriented Programming (2)	0921210	4	3	3	0921320	Computer Security	0924214	3	3	0
	0921311	Design & Analysis of Algorithms	0921211	3	3	0	0921321	Operating Systems	0923313	4	3	3
	0922312	Technical Reports	1722111	3	3	0	0922322	Professional Responsibility	0922312 0826152	3	3	0
	0923313	Computer Organization and Architecture	0923223	4	3	3	0921323	Digital Image Processing	0921224 0921310	4	3	3
	0921314	Fundamentals of Web Programming	0921210 0922222	4	3	3	0921324	Artificial Intelligence	0921311	4	3	3
	Total			18	15	9	Total			18	15	9
	Summer Semester (One Course)											
	Course Code	Course Name		Credit Hours			Pre-requisite					
0921330	Practical (Co-op) Training		3			Department Aproval and Finish 95 Credit Hours						
Acad. Year	First Semester (5 Courses)						Second Semester (5 Courses)					
	Course Code	Course Name	Pre-req.	Hours			Course Code	Course Name	Pre-req.	Hours		
				Cr	Th	Pr				Cr	Th	Pr
4	0921410	Project Proposal	0922322 0921220 0921311 0921314	2	---	---	0921420	Project Implementation	0921410	3	---	---
	0921411	Advanced Software Engineering	0921220 0921310	3	3	0	0921421	Selected Topics in CS	0921320 0921321	3	3	0
	0921412	Data Science	0921224 0922222	4	3	3	1900???	University Elective(2)	----	2	2	0
	1900???	University Elective(1)	----	2	2	0	092?4??	Program Elective(2)	?	3	3	0
	092?4??	Program Elective(1)	?	3	3	0	092?4??	Program Elective(3)	?	3	3	0
	Total			14	11	3	Total			14	11	0
Elective Courses	Program Elective Courses (3 Courses of 9 Credit Hours Total)						University Elective Courses (2 Courses of 4 Credit Hours Total)					
	Course Code	Course Name	Pre-req.	Hours			Course Code	Course Name		Hours		
				Cr	Th					Cr	Th	
	0921413	Advanced Web Programming	0921314	3	3		1900103	Islamic Morals and Occupational Ethics		2	2	
	0921414	Ubiquitous Computing	0921321 0924214	3	3		1900104	Studies in the Prophet's Biography		2	2	
	0922414	Mining of Massive Datasets	0922222	3	3		1900105	Medical Jurisprudence		2	2	
	0921415	Machine Learning	0921324	3	3		1900106	Economy and Politics in Islam		2	2	
	0922416	Web application Penetration	0921320	3	3		1900107	Social System and Family Behavior		2	2	
	0921422	Mobile Application Development	0921210	3	3		0602233	Fundamentals of Entrepreneurship		2	2	
	0921423	Software Project Management	0921411	3	3		1900109	Health and Fitness		2	2	
	0921424	Formal Methods in Software	0921411	3	3		1900110	Research Skills		2	2	
	0921425	Parallel Computing	0921321	3	3		1900111	Voluntary Work		2	2	
	0921426	Computer Vision	0921323	3	3		1900112	Medicine: Type and Usage		2	2	
	0923426	Computer Graphics	0827122	3	3		1900113	Human Rights in Islam		2	2	
	0921427	Software Security	0921320	3	3		1900114	Food and Nutrition		2	2	