



Advising Plan for Software Engineering 2019/2020



First Year / First Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1401116	The Islamic Culture	3	0	3	-
1301106	Structured Programming	2	2	3	-
1301111	Discrete Structures (1)	3	0	3	-
1401120	English Language (1) **	3	0	3	-
1501110	Calculus (1)	3	0	3	-
Total		14	2	15	

First Year / Second Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1301108	Object-Oriented Programming (1) **	2	2	3	1301106
1301120	Digital Systems	3	0	3	1301111
1301270	Numerical Analysis	3	0	3	1501110
1401152	National Education and Media	3	0	3	-
1501212	Probability and Statistics	3	0	3	1501110
Total		14	2	15	

Second Year / First Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1301150	Linear Algebra	3	0	3	1501110
1301203	Data Structures and Algorithms	2	2	3	1301108 + 1301111
1301266	Technical Writing & Communication	3	0	3	1401120
1302281	Introduction to Software Engineering	3	0	3	1301108
1401110	Arabic Language (1) **	3	0	3	-
-	University Elective	3	0	3	-
Total		17	2	18	

Second Year / Second Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1301208	Object-Oriented Programming (2)	2	2	3	1301108
1301222	Computer Organization and Architecture	3	0	3	1301120
1301236	Web-Based Programming	2	2	3	1301108
1302382	Software Requirements Engineering	2	2	3	1302281
1302383	Project Management	2	2	3	1302281
1302452	Human-Computer Interaction	3	0	3	1302281
Total		14	8	18	

Third Year / First Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1301305	Database and Application of Database	2	2	3	1301203
1301310	Design and Analysis of Algorithms	3	0	3	1301203
1301326	Operating Systems	3	0	3	1301203
1302384	Software Analysis and Design	2	2	3	1302382 + 1301305 Ⓞ
-	Specialization Elective	3	0	3	-
-	University Elective	3	0	3	-
Total		16	4	18	

Third Year / Second Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1301304	Visual Programming	2	2	3	1301305
1301336	Data Communications and Computer Networks	3	0	3	1301326
1302360	Database Systems Administration	3	0	3	1301305
1302481	Component-Based Software Engineering	3	0	3	1302384
1302486	Software Testing	3	0	3	1302384
1302493	Software Development and Documentation	3	0	3	1302384
Total		17	2	18	

1302368	Field Training	0	0	0	Pass. 90 Cr. Hrs.	During summer semester of third year
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Fourth Year / First Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1302485	Software Maintenance and Reengineering	3	0	3	1302493
1302491	Graduation Project (1)	0	2	1	Pass. 90 Cr. Hrs.+ 1302384
1302496	Agile Methods	3	0	3	1302384
1302338	Advanced Internet Computing	2	2	3	1302336 + 1301305
-	Specialization Elective	3	0	3	-
-	University Elective	3	0	3	-
Total		14	4	16	

Fourth Year / Second Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
100103	Military Science*	3	0	3	-
1302492	Graduation Project (2)	0	4	2	1302491
1302495	Software Quality Management	3	0	3	1302485 + 1302486
-	Specialization Elective	3	0	3	-
-	Free Elective	3	0	3	-
Total		12	4	14	