

## Advising Plan for Software Engineering 2025/2026



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	-
1501167	Discrete Structures (1)	3	0	3	-
1401124	Communication skills (English)**	3	0	3	-
1501110	Calculus (1)	3	0	3	-
<b>Total</b>		<b>14</b>	<b>2</b>	<b>15</b>	

Second Year / First Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1307103	Linear Algebra	3	0	3	1501110
1301203	Data Structures and Algorithms	2	2	3	1301108+1501167
1302281	Introduction to Software Engineering	3	0	3	1301108
1401225	Computing Ethics and Technical Writing	2	0	2	1401124
1401226	English Language for Information Technology Students	1	0	1	1401124
1301236	Web-Based Programming	2	2	3	1301108
-	University Elective	3	0	3	-
<b>Total</b>		<b>13</b>	<b>4</b>	<b>18</b>	

Third Year / First Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1302370	Software Project Management	2	2	3	1302282
1301310	Design and Analysis of Algorithms	3	0	3	1301203
1302371	Software Design	2	2	3	1302282
1302360	Database Systems Administration	3	0	3	1301305
1301208	Specialization Elective	2	2	3	1301108
-	University Requirement	3	0	3	
<b>Total</b>		<b>12</b>	<b>6</b>	<b>18</b>	

1302368	Field Training	0	3	3	Pass. 90Cr. Hrs.
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Fourth Year / First Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1302491	Graduation Project (1)	0	2	1	Pass. 90 Cr. Hrs.+ 1302371
1302497	Component-Based and Distributed Software Engineering	3	0	3	1302390
1302470	Software Construction and Documentation	2	2	3	1302390
-	Specialization Elective	3	0	3	-
-	University Elective	3	0	3	-
<b>Total</b>		<b>11</b>	<b>4</b>	<b>13</b>	

**Total Credit Hours (Including Field Training): 132**

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	1501167
1501230	Numerical Analysis	3	0	3	1501110
1401150	National Education	3	0	3	-
1501212	Probability and Statistics	3	0	3	1501110
<b>Total</b>		<b>14</b>	<b>2</b>	<b>15</b>	

Second Year / Second Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1302282	Software Requirements Engineering	2	2	3	1302281
1302285	User Experience Design in Software Engineering	3	3	3	1301236
1301305	Database and Application of Database	2	2	3	1301203
1302286	Artificial Intelligence in Software Engineering	3	0	3	1301203
1301326	Operating Systems	3	0	3	1301203
1301222	Computer Organization and Architecture	3	0	3	1301120
<b>Total</b>		<b>14</b>	<b>7</b>	<b>18</b>	

Third Year / Second Semester					
Course Number	Course Title	Credit Hours			Prerequisite
		Theory	Lab	Total	
1301304	Visual Programming	2	2	3	1301305
1305130	Data Communications and Computer Networks	3	0	3	1301326
1302338	Advanced Internet Computing	2	2	3	1301236 + 1301305
1302390	Software Architecture	3	0	3	1302371
1302391	Software Testing and Quality Assurance	2	2	3	1302371
1401123	Communication Skills (Arabic)**	3	0	3	-
<b>Total</b>		<b>15</b>	<b>6</b>	<b>18</b>	

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
1302471	Secure Software Development	3	0	3	1302470
-	Specialization Elective	3	0	3	-
-	Free Elective	3	0	3	-
<b>Total</b>		<b>9</b>	<b>4</b>	<b>14</b>	