



Course categories: UC = University Core; FC = Faculty Core; AC = Area Core; AE = Area Elective; FE = Faculty Elective; UE = University Elective

Semester	Course Code	Course Title	Course Category	Hours			Total Credit	Pre-requisite	ECTS Credit
				Lecture	Tutorial	Lab/Prac.			
1	ENGR103	COMPUTER PROGRAMMING-I	FC	2	0	2	3	-	5
1	ENGR101	INFORMATION TECHNOLOGY AND APPLICATIONS	FC	2	0	1	2	-	2
1	MATH121	CALCULUS-I	FC	3	2	0	4	-	6
1	MATH123	DISCRETE MATHEMATICS	FC	3	1	0	3	-	5
1	PHYS121	PHYSICS-I	FC	3	1	1	4	-	5
1	ENGL121	ENGLISH-I	UC	3	0	0	3	-	4
1	TUOG101 / TURK131	TURKISH LANGUAGE-I / TURKISH AS A FOREIGN LANGUAGE-I	UC	2	0	0	2	-	3
<b>Total 7 courses</b>			<b>TOTAL:</b>	<b>18</b>	<b>4</b>	<b>4</b>	<b>21</b>		<b>30</b>
2	ENGR104	COMPUTER PROGRAMMING-II	FC	2	0	2	3	ENGR103	4
2	MATH122	CALCULUS-II	FC	3	2	0	4	MATH121	6
2	MATH124	LINEAR ALGEBRA	FC	3	1	0	3	-	5
2	PHYS122	PHYSICS-II	FC	3	1	1	4	PHYS121	5
2	ENGL122	ENGLISH-II	UC	3	0	0	3	ENGL121	4
2	TARH101 / HIST111	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REFORMS-I	UC	2	0	0	2	-	3
2	TUOG102 / TURK132	TURKISH LANGUAGE-II / TURKISH AS A FOREIGN LANGUAGE-II	UC	2	0	0	2	- / TURK131	3
<b>Total 7 courses</b>			<b>TOTAL:</b>	<b>18</b>	<b>4</b>	<b>3</b>	<b>21</b>		<b>30</b>
3	CMPE215	ALGORITHMS AND DATA STRUCTURES	AC	3	0	1	3	ENGR104	6
3	ELEE211	DIGITAL LOGIC DESIGN	AC	3	0	2	4	-	6
3	AINE201	FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE	AC	3	0	0	3	-	6
3	MATH225	DIFFERENTIAL EQUATIONS	FC	4	0	0	4	MATH121, MATH124	5
3	TARH102 / HIST112	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REFORMS-II	UC	2	0	0	2	-	3
3	UNIEXX1	UNIVERSITY ELECTIVE	UE	X	X	X	3	-	4
<b>Total 6 courses</b>			<b>TOTAL:</b>	<b>15</b>	<b>0</b>	<b>3</b>	<b>19</b>		<b>30</b>
4	CMPE216	OBJECT ORIENTED PROGRAMMING	AC	2	0	2	3	ENGR104	6
4	AINE204	ARTIFICIAL INTELLIGENCE TOOLS	AC	3	0	2	4	AINE201	6
4	CMPE252	ANALYSIS OF ALGORITHMS	AC	3	0	2	4	CMPE215	6
4	ENGR215	RESEARCH METHODS FOR ENGINEERING AND ARCHITECTURE	FC	2	0	0	2	-	3
4	OHSA206	OCCUPATIONAL HEALTH AND SAFETY	FC	3	0	0	3	-	3
4	STAT226	PROBABILITY AND STATISTICS	FC	3	1	0	3	MATH121	6
<b>Total 6 courses</b>			<b>TOTAL:</b>	<b>16</b>	<b>1</b>	<b>6</b>	<b>19</b>		<b>30</b>
5	CMPE321	MICROPROCESSORS	AC	3	0	2	4	-	6
5	CMPE341	DATABASE SYSTEMS	AC	3	0	2	4	CMPE215	5
5	SFWE343	SOFTWARE ANALYSIS AND DESIGN	AC	2	0	2	3	CMPE216	5
5	AINE301	BASIC SEARCH METHODS	AC	3	0	0	3	-	5
5	ENGRXX1	FACULTY ELECTIVE	FE	X	X	X	3	-	5
5	UNIEXX2	UNIVERSITY ELECTIVE	UE	X	X	X	3	-	4
<b>Total 6 courses</b>			<b>TOTAL:</b>	<b>11</b>	<b>0</b>	<b>6</b>	<b>20</b>		<b>30</b>
6	AINE312	DATA SCIENCE	AC	3	0	0	3	-	5
6	AINE332	DEEP NEURAL NETWORKS	AC	3	0	0	3	-	6
6	AINE334	KNOWLEDGE REPRESENTATION AND REASONING	AC	3	0	0	3	-	5
6	ENGRXX2	FACULTY ELECTIVE	FE	X	X	X	3	-	5
6	ENGRXX3	FACULTY ELECTIVE	FE	X	X	X	3	-	5
6	UNIEXX3	UNIVERSITY ELECTIVE	UE	X	X	X	3	-	4
<b>Total 6 courses</b>			<b>TOTAL:</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>18</b>		<b>30</b>
7	AINE403	SUMMER TRAINING	AC	0	0	0	0	-	2
7	AINE413	MACHINE LEARNING	AC	3	0	0	3	-	6
7	ENGR401	ENGINEERING DESIGN-I	FC	1	0	2	2	-	6
7	AINEXX1	AREA ELECTIVE	AE	X	X	X	3	-	6
7	AINEXX2	AREA ELECTIVE	AE	X	X	X	3	-	6
7	UNIEXX4	UNIVERSITY ELECTIVE	UE	X	X	X	3	-	4
<b>Total 6 courses</b>			<b>TOTAL:</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>14</b>		<b>30</b>
8	ENGR402	ENGINEERING DESIGN-II	FC	1	0	2	2	ENGR401	10
8	ENGR404	ENGINEERING ATTRIBUTES AND ETHICS	FC	2	0	0	2	-	3
8	AINEXX3	AREA ELECTIVE	AE	X	X	X	3	-	6
8	AINEXX4	AREA ELECTIVE	AE	X	X	X	3	-	6
8	ENGRXX4	FACULTY ELECTIVE	FE	X	X	X	3	-	5
<b>Total 5 courses</b>			<b>TOTAL:</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>13</b>		<b>30</b>
<b>GRAND TOTAL:</b>				<b>94</b>	<b>9</b>	<b>26</b>	<b>145</b>		<b>240</b>