

Freshman Year									
I. Semester					II. Semester				
Course Name	Theoretic	Applied	Credit	ECAT	Course Name	Theoretic	Applied	Credit	ECAT
Math I	3	2	4	6	Math II	3	2	4	6
Physics I	3	2	4	6	Physics II	3	2	4	6
General Chemistry	2	2	3	4	Computer Aided Technical Drawing	2	2	3	4
Computer and Introduction to Programming	3	0	3	4	Computer Programming	3	0	3	4
Introduction to Electrical-Electronics Engineering	3	0	3	4	Linear Algebra	3	0	3	4
English I	2	2	3	4	English II	2	2	3	4
Turkish I	2	0	2	2	Turkish II	2	0	2	2
<b>Total</b>	<b>18</b>	<b>8</b>	<b>22</b>	<b>30</b>	<b>Total</b>	<b>18</b>	<b>8</b>	<b>22</b>	<b>30</b>
Sophomore Year									
III. Semester					IV. Semester				
Course Name	Theoretic	Applied	Credit	ECAT	Course Name	Theoretic	Applied	Credit	ECAT
Circuit Theory I	3	2	4	6	Circuit Theory II	3	2	4	6
Circuit and Measurement Lab	2	2	3	5	Logic Design	3	2	4	6
Math III	3	2	4	6	Math IV	3	0	3	5
Computational Methods in Engineering	3	0	3	5	Electromagnetic Theory I	3	0	3	5
Material Science	2	0	2	3	Physical Electronics	2	0	2	3
Atatürk Principles and History of Tr. Revolution I	2	0	2	2	Atatürk Principles and History of Tr. Revolution II	2	0	2	2
<i>Social Elective Course I</i> Technical English Project Management Industrial Graphical Design	3	0	3	3	<i>Social Elective Course II</i> First Aid and Health Information Advanced Technical English Industrial Product Design Motivation and Efficiency	3	0	3	3
<b>Total</b>	<b>18</b>	<b>6</b>	<b>21</b>	<b>30</b>	<b>Total</b>	<b>19</b>	<b>4</b>	<b>21</b>	<b>30</b>
Junior Year									
V. Semester					VI. Semester				
Course Name	Theoretic	Applied	Credit	ECAT	Course Name	Theoretic	Applied	Credit	ECAT
Electronics I	3	2	4	6	Electronics II	3	2	4	6
Fundamentals of Control Systems	3	0	3	4	Linear Control Systems	3	0	3	5
Electromechanical Energy Conversation I	3	2	4	6	Electromechanical Energy Conversation II	3	2	4	6
Signals and Systems	3	0	3	5	Probability	3	0	3	4
Electromagnetic Theory II	3	0	3	5	Microprocessors	3	0	3	5
<i>Technical Elective Course I</i> Advanced Logic Circuits High Voltage Techniques	3	0	3	4	<i>Technical Elective Course II</i> PLC Programming Analog Communication Energy Generation Systems	3	0	3	4
Internship I	0	0	0	0					
<b>Total</b>	<b>18</b>	<b>4</b>	<b>20</b>	<b>30</b>	<b>Total</b>	<b>18</b>	<b>4</b>	<b>20</b>	<b>30</b>
Senior Year									
VII. Semester					VIII. Semester				
Course Name	Theoretic	Applied	Credit	ECAT	Course Name	Theoretic	Applied	Credit	ECAT
Power Electronics	3	0	3	4	Digital Signal Processing	3	0	3	5
Engineering Economy	3	0	3	4	<i>Technical Elective Course IV</i> Fiber Optical Communication Systems Power Systems Analysis Process Control and Automation	3	0	3	5
<i>Technical Elective Course III</i> System Programming Power Transmission Systems Electrical Drive Systems	3	0	3	4	<i>Technical Elective Course VI</i> Applied Power Electronics Energy Protection Systems Antenna Theory Synchronous Machine Applications	3	0	3	5
<i>Technical Elective Course V</i> Digital Communication Illumination Techniques Digital Control Systems	3	0	3	4	<i>Technical Elective Course VIII</i> Fundamentals of Biomedical Engineering Special Electrical Machines Wireless Communication Nanotechnology	3	0	3	5
<i>Technical Elective Course VII</i> Sensors Power Distribution Systems Communication Electronics	3	0	3	4	<i>Engineering Project</i> Fotonic System Design Project Communication System Design Project Smart Sensor Design Project Microprocessor Systems Design Project Machine-Control System Design Project PLC Design Project Motor Control Systems Design Project Energy System Design Project Electrical Machine Design Project Electromechanical System Design Project Optimization System Design Project Electrical Drive System Project Energy Quality System Design Project RF Circuit Design Project Mechatronics System Design Project	0	2	1	4
Internship II	0	0	0	4					
<i>Engineering Solutions</i> Communication Antenna Design Micro-sensors Biomedical Engineering Industrial Automation Energy Systems Industrial Electronics Visual Programming Power Systems Electromechanical Systems Optimization Electrical Drive Systems Digital Control Systems	5	0	5	6	<i>Engineering Design</i> Fotonic System Design Communication System Design Smart Sensor Design Microprocessor Systems Design Machine-Control System Design PLC Design Motor Control Systems Design Energy System Design Electrical Machine Design Electromechanical System Design Optimization System Design Electrical Drive System Energy Quality System Design RF Circuit Design Mechatronics System Design	4	0	4	6
<b>Total</b>	<b>20</b>	<b>0</b>	<b>20</b>	<b>34</b>	<b>Total</b>	<b>16</b>	<b>2</b>	<b>17</b>	<b>30</b>