

**Tablo 1**  
**ÖĞRETİM PROGRAMI TABLOSU**  
**HACETTEPE ÜNİVERSİTESİ**  
**MÜHENDİSLİK FAKÜLTESİ**  
**ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ**  
**ENDÜSTRİ MÜHENDİSLİĞİ LİSANS PROGRAMI (İNGİLİZCE)**

GÜZ					BAHAR				
DERSİN KODU VE ADI	T	P	K	AKTS	DERSİN KODU VE ADI	T	P	K	AKTS
<b>1. YARIYIL</b>					<b>2. YARIYIL</b>				
<b>ZORUNLU DERSLER LİSTESİ</b>					<b>ZORUNLU DERSLER LİSTESİ</b>				
BEB650 - Basic Information and Communication Technologies	0	2	1	2	EMÜ102 - Computer Aided Technical Drawing	2	2	3	6
ECO135 - Introduction to Economics I	3	0	3	5	ECO136 - Introduction to Economics II	3	0	3	5
EMÜ101 - Introduction to Industrial Engineering	2	0	2	3	FİZ117 - General Physics Laboratory	0	3	1	2
FİZ137 - Physics I	4	0	4	5	FİZ138 - Physics II	4	0	4	5
İNG111 - Integrated Skills I	3	0	3	3	İNG112 - Integrated Skills II	3	0	3	3
KİM127 - Basic Chemistry	3	0	3	4	MAT124 - Mathematics II	4	2	5	6
MAT123 - Mathematics I	4	2	5	6	TKD104 - Turkish Language II	2	0	2	2
TKD103 - Turkish Language I	2	0	2	2	MÜH103 - Occupational Health and Safety I	1	0	1	1
<b>TOPLAM ZORUNLU DERS</b>	<b>21</b>	<b>4</b>	<b>23</b>	<b>30</b>	<b>TOPLAM ZORUNLU DERS</b>	<b>19</b>	<b>7</b>	<b>22</b>	<b>30</b>
<b>SEÇMELİ DERSLER LİSTESİ</b>					<b>SEÇMELİ DERSLER LİSTESİ</b>				
<b>TOPLAM SEÇMELİ DERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>TOPLAM SEÇMELİ DERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>YARIYIL TOPLAM</b>			<b>23</b>	<b>30</b>	<b>YARIYIL TOPLAM</b>			<b>22</b>	<b>30</b>
<b>3. YARIYIL</b>					<b>4. YARIYIL</b>				
<b>ZORUNLU DERSLER LİSTESİ</b>					<b>ZORUNLU DERSLER LİSTESİ</b>				
AİT203 - Atatürks Principles and a History of His Reforms I	2	0	2	2	AİT204 - Atatürks Principles and a History of His Reforms II	2	0	2	2
EMÜ221 - Introduction to Optimization and Modeling	3	0	3	5	EMÜ222 - Deterministic Operations Research	3	0	3	5
EMÜ231 - Probability and Statistics for Engineers I	3	0	3	5	EMÜ232 - Probability and Statistics for Engineers II	3	0	3	5
MAT245 - Linear Algebra	4	0	4	5	EMÜ242 - Work Analysis and Design	3	0	3	5
MMÜ251 - Materials Science	3	0	3	4	EMÜ244 - Facility Location and Layout	3	0	3	5
MMÜ261 - Engineering Mechanics	3	0	3	4	MMÜ242 - Numerical Analysis	3	0	3	4
MÜH101 -Introduction to Programming	3	0	3	5	MMÜ244 - Manufacturing Processes and Engineering	3	0	3	4
<b>TOPLAM ZORUNLU DERS</b>	<b>21</b>	<b>0</b>	<b>21</b>	<b>30</b>	<b>TOPLAM ZORUNLU DERS</b>	<b>20</b>	<b>0</b>	<b>20</b>	<b>30</b>
<b>SEÇMELİ DERSLER LİSTESİ</b>					<b>SEÇMELİ DERSLER LİSTESİ</b>				
<b>TOPLAM SEÇMELİ DERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>TOPLAM SEÇMELİ DERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>YARIYIL TOPLAM</b>			<b>21</b>	<b>30</b>	<b>YARIYIL TOPLAM</b>			<b>20</b>	
<b>5. YARIYIL</b>					<b>6. YARIYIL</b>				
<b>ZORUNLU DERSLER LİSTESİ</b>					<b>ZORUNLU DERSLER LİSTESİ</b>				
EMÜ321 - Stochastic Operations Research	3	0	3	5	EMÜ322 - Simulation Modeling and Analysis	2	2	3	5
EMÜ331 - Statistical Quality Control	3	0	3	5	EMÜ336 - Data Mining	3	0	3	4
EMÜ341 - Production Planning and Control I	3	0	3	5	EMÜ342 - Production Planning and Control II	3	0	3	5
EMÜ365 - Engineering Economy	3	0	3	5	EMÜ464 - Project Management	3	0	3	4
EMÜ398 - Internship I	0	4	2	4					
<b>TOPLAM ZORUNLU DERS</b>	<b>12</b>	<b>4</b>	<b>14</b>	<b>24</b>	<b>TOPLAM ZORUNLU DERS</b>	<b>11</b>	<b>2</b>	<b>12</b>	<b>18</b>
In-field elective I	3	0	3	6	In-field Elective II	3	0	3	6
					In-field Elective III	3	0	3	6
<b>TOPLAM SEÇMELİ DERS</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>6</b>	<b>TOPLAM SEÇMELİ DERS</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>12</b>
<b>YARIYIL TOPLAM</b>			<b>17</b>	<b>30</b>	<b>YARIYIL TOPLAM</b>			<b>18</b>	<b>30</b>
<b>7. YARIYIL</b>					<b>8. YARIYIL</b>				
<b>ZORUNLU DERSLER LİSTESİ</b>					<b>ZORUNLU DERSLER LİSTESİ</b>				
EMÜ405 - System Analysis and Design I	0	6	2	8	EMÜ406 - System Analysis and Design II	0	6	2	8
EMÜ498 - Internship II	0	4	2	4					
MÜH104 - Occupational Health and Safety II	1	0	1	1					
MÜH401 - Multi-Disciplined Project Work	0	2	1	1					
<b>TOPLAM ZORUNLU DERS</b>	<b>1</b>	<b>12</b>	<b>6</b>	<b>14</b>	<b>TOPLAM ZORUNLU DERS</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>8</b>
<b>SEÇMELİ DERSLER LİSTESİ</b>					<b>SEÇMELİ DERSLER LİSTESİ</b>				
In-field Elective IV	3	0	3	6	In-field Elective VI	3	0	3	5
In-field Elective V	3	0	3	5	In-field Elective VII	3	0	3	5
Out-of-field (Non-technical) Elective I	2	0	2	2	In-field Elective VIII	3	0	3	6
Out-of-field (Non-technical) Elective II	3	0	3	3	In-field Elective IX	3	0	3	6
<b>TOPLAM SEÇMELİ DERS</b>	<b>11</b>	<b>0</b>	<b>11</b>	<b>16</b>	<b>TOPLAM SEÇMELİ DERS</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>22</b>
<b>YARIYIL TOPLAM</b>			<b>17</b>	<b>30</b>	<b>YARIYIL TOPLAM</b>			<b>14</b>	<b>30</b>
<b>GENEL TOPLAM</b>								<b>152</b>	<b>240</b>
<b>ZORUNLU DERS KREDİ MİKTARI</b>								<b>120</b>	<b>184</b>
<b>SEÇMELİ DERS KREDİ MİKTARI</b>								<b>32</b>	<b>56</b>
<b>ZORUNLU DERS KREDİ YÜZDESİ</b>									<b>77%</b>
<b>SEÇMELİ DERS KREDİ YÜZDESİ</b>									<b>23%</b>

**Tablo 2**  
**SERVİS DERSLERİ TABLOSU**  
**HACETTEPE ÜNİVERSİTESİ**  
**MÜHENDİSLİK FAKÜLTESİ**  
**ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ**

DERSİN KODU VE ADI	T	P	K	AKTS	DERSİN KODU VE ADI	T	P	K	AKTS
<b>GÜZ</b>					<b>BAHAR</b>				
EMÜ171 - Quality Management	3	0	3	6	EMÜ171 - Quality Management	3	0	3	6
EMÜ371 - Statistics and Probability for Engineers <sup>(4)</sup>	3	0	3	5	EMÜ472 - Quality Control <sup>(4)</sup>	3	0	3	5
EMÜ471 - Engineering Economy <sup>(4)</sup>	3	0	3	5	EMÜ473 - Technology Entrepreneurship	2	2	3	4
EMÜ473 - Technology Entrepreneurship	2	2	3	4					

<sup>(4)</sup> For Automotive Engineering Undergraduate Program

HACETTEPE ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ ENDÜSTRİ MÜHENDİSLİĞİ LİSANS PROGRAMI (İNGİLİZCE) ALAN İÇİ SEÇMELİ DERS LİSTESİ									
DERSİN KODU VE ADI	T	P	K	AKTS	DERSİN KODU VE ADI	T	P	K	AKTS
EMÜ324 - Applied Operations Research	3	0	3	6					
EMÜ332 - Quality Management	3	0	3	6					
EMÜ334 - Introduction to Regression Analysis	3	0	3	6					
EMÜ346 - Ergonomics	3	0	3	6					
EMÜ361 - Financial Accounting	3	0	3	6					
EMÜ362 - Cost Accounting	3	0	3	6					
EMÜ411 - Management of Information Systems	3	0	3	6					
EMÜ412 - Computer Networks	3	0	3	6					
EMÜ413 - Decision Support Systems	3	0	3	6					
EMÜ414 - Mathematical Programming and Computer Applications	3	0	3	6					
EMÜ415 - Database Management Systems	3	0	3	6					
EMÜ421 - Multicriteria Decision Making	3	0	3	6					
EMÜ423 - Network Flow Analysis	3	0	3	6					
EMÜ424 - Decision Analysis	3	0	3	6					
EMÜ425 - Engineering Optimization	3	0	3	6					
EMÜ426 - Game Theory	3	0	3	6					
EMÜ427 - Heuristic Methods for Optimization	3	0	3	6					
EMÜ428 - Military Operations Research	3	0	3	6					
EMÜ429 - Multi-Objective Combinatorial Optimization	3	0	3	6					
EMÜ430 - Data Analytics	3	0	3	6					
EMÜ431 - Design of Engineering Experiments	3	0	3	6					
EMÜ434 - Reliability Analysis	3	0	3	6					
EMÜ435 - Quality Engineering in Product and Process Design	3	0	3	6					
EMÜ436 - Time Series Analysis and Forecasting	3	0	3	6					
EMÜ437 - Probabilistic Risk Assessment and Decision Support	3	0	3	6					
EMÜ438 - Dynamic Decision Models	3	0	3	6					
EMÜ439 - Stochastic Processes	3	0	3	6					
EMÜ440 - Fundamentals of Industry 4.0	3	0	3	6					
EMÜ441 - Inventory Planning and Control	3	0	3	6					
EMÜ443 - Revenue Management	3	0	3	6					
EMÜ444 - Scheduling and Sequencing	3	0	3	6					
EMÜ445 - Enterprise Resource Planning Systems	3	0	3	6					
EMÜ446 - Supply Chain Management	3	0	3	6					
EMÜ447 - Distribution Logistics	3	0	3	6					
EMÜ448 - Lean Production Systems	3	0	3	6					
EMÜ451 - Computer Aided Manufacturing	3	0	3	6					
EMÜ452 - Applied Petri Nets	3	0	3	6					
EMÜ453 - Measurement and Instrumentation	3	0	3	6					
EMÜ454 - Maintenance Engineering	3	0	3	6					
EMÜ461 - New Product Development	3	0	3	6					
EMÜ462 - Engineering Management	3	0	3	6					
EMÜ465 - Industrial Economics	3	0	3	6					
EMÜ466 - Technology and Innovation Management	3	0	3	6					
EMÜ467 - Business Process Engineering	3	0	3	6					
EMÜ491 - Special Topics in Industrial Engineering I	3	0	3	6					
EMÜ492 - Special Topics in Industrial Engineering II	3	0	3	6					
MAT235 - Engineering Mathematics I	4	0	4	5					