

**MUGLA UNIVERSITY**  
**ENGINEERING FACULTY**  
**DEPARTMENT OF COMPUTER ENGINEERING**  
**UNDERGRADUATE CURRICULUM**

**FIRST YEAR**

**FIRST SEMESTER**

CODE	COURSES	T	A	L	C	M/E	ECTS
PHYS 105	General Physics I	3	2	0	4	M	6
MATH 119	Calculus With Analytic Geometry	4	2	0	5	M	6
ENG 101	Development Of Reading And Writing Skills I	4	0	0	4	M	5
CHEM 107	General Chemistry	3	2	0	4	M	5
TDB 103	Turkish I	2	0	0	0	M	1
CENG 101	Computer Engineering Orientation	0	2	0	1	M	2
CENG 103	Introduction to Informatics, Algorithms and Programming	3	2	0	4	M	5
	<b>TOTAL</b>	<b>19</b>	<b>10</b>	<b>0</b>	<b>22</b>		<b>30</b>

**SECOND SEMESTER**

CODE	COURSES	T	A	L	C	M/E	ECTS
PHYS 106	General Physics II	3	2	0	4	M	7
MATH 120	Calculus For Functions Of Several Variables	4	2	0	5	M	7
ENG 102	Development Of Reading And Writing Skills II	4	0	0	4	M	6
CENG 102	Introduction to Object Oriented Programming	3	2	0	4	M	5
CENG 104	Basic Linear Algebra for Engineers	3	0	0	3	M	4
TDB 104	Turkish II	2	0	0	0	M	1
	<b>TOTAL</b>	<b>19</b>	<b>6</b>	<b>0</b>	<b>20</b>		<b>30</b>

**SECOND YEAR**

**THIRD SEMESTER**

CODE	COURSES	T	A	L	C	M/E	ECTS
MATH 219	Introduction to Differential Equations	4	0	0	4	M	7
CENG 201	Data Structures and Algorithms	3	2	0	4	M	8
CENG 203	Discrete Computational Structures	3	0	0	3	M	7
	Non-Technical Elective	3	0	0	3	E	3
ATB 193	Principles Of Kemal Ataturk I	2	0	0	0	M	1
ENG 211	Academic Oral Presentation Skills	3	0	0	3	M	4
	<b>TOTAL</b>	<b>18</b>	<b>2</b>	<b>0</b>	<b>17</b>		<b>30</b>

**FOURTH SEMESTER**

CODE	COURSES	T	A	L	C	M/E	ECTS
CENG 202	Programming Language Concepts	3	2	0	4	M	7
CENG 204	Statistics and Probability for Engineers	3	0	0	3	M	6
CENG 206	Digital Logic Design	3	2	0	4	M	7
CENG 208	Electrical Circuits	3	0	0	3	M	6
	Non-Technical Elective	3	0	0	3	E	3
ATB 194	Principles Of Kemal Ataturk II	2	0	0	0	M	1
	<b>TOTAL</b>	<b>17</b>	<b>4</b>	<b>0</b>	<b>17</b>		<b>30</b>

**THIRD YEAR**

**FIFTH SEMESTER**

<b>CODE</b>	<b>COURSES</b>	<b>T</b>	<b>A</b>	<b>L</b>	<b>C</b>	<b>M/E</b>	<b>ECTS</b>
CENG 301	Computer Organization	3	0	0	3	M	6
CENG 303	Analysis of Algorithms	3	0	0	3	M	6
CENG 305	Computer Networks	3	2	0	4	M	7
CENG 307	Web Development and Programming	3	2	0	4	M	6
	Technical Elective	3	0	0	3	E	5
CENG 300	Summer Practice I	0	0	0	0	M	0
	<b>TOTAL</b>	<b>15</b>	<b>2</b>	<b>0</b>	<b>17</b>		<b>30</b>

**SIXTH SEMESTER**

<b>CODE</b>	<b>COURSES</b>	<b>T</b>	<b>A</b>	<b>L</b>	<b>C</b>	<b>M/E</b>	<b>ECTS</b>
CENG 302	Formal Languages and Abstract Machines	3	0	0	3	M	6
CENG 304	Database Management Systems	3	2	0	4	M	8
CENG 306	Operating Systems	3	2	0	4	M	8
	Technical Elective	3	0	0	3	E	5
	Non-Technical Elective	3	0	0	3	E	3
	<b>TOTAL</b>	<b>15</b>	<b>4</b>	<b>0</b>	<b>17</b>		<b>30</b>

**FOURTH YEAR**

**SEVENTH SEMESTER**

<b>CODE</b>	<b>COURSES</b>	<b>T</b>	<b>A</b>	<b>L</b>	<b>C</b>	<b>M/E</b>	<b>ECTS</b>
CENG 401	Software Engineering	3	0	0	3	M	6
CENG 403	Senior Design Project I	3	0	0	3	M	9
	Technical Elective	3	0	0	3	E	5
	Technical Elective	3	0	0	3	E	5
	Free Elective	3	0	0	3	E	5
CENG 400	Summer Practice II	0	0	0	0	M	0
	<b>TOTAL</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>15</b>		<b>30</b>

**EIGHTH SEMESTER**

<b>CODE</b>	<b>COURSES</b>	<b>T</b>	<b>A</b>	<b>L</b>	<b>C</b>	<b>M/E</b>	<b>ECTS</b>
CENG 402	Introduction to Parallel Programming	3	0	0	3	M	6
CENG 404	Senior Design Project II	3	0	0	3	M	9
	Technical Elective	3	0	0	3	E	5
	Technical Elective	3	0	0	3	E	5
	Free Elective	3	0	0	3	E	5
	<b>TOTAL</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>15</b>		<b>30</b>

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**ENGINEERING FACULTY**  
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**ELECTIVE COURSES IN DEPARTMENT**

<b>CODE</b>	<b>COURSES</b>	<b>T</b>	<b>A</b>	<b>L</b>	<b>C</b>	<b>ECTS</b>
CENG 309	Artificial Intelligence	3	0	0	3	5
CENG 311	Modeling and Simulation	3	0	0	3	5
CENG 313	Data Mining	3	0	0	3	5
CENG 315	Scientific Computing	3	0	0	3	5
CENG 308	Dynamic Web Programming	3	0	0	3	5
CENG 310	Fuzzy Logic Systems	3	0	0	3	5
CENG 312	Microprocessors	3	0	0	3	5
CENG 314	Evolutionary Computation	3	0	0	3	5
CENG 405	Advanced Computer Networks	3	0	0	3	5
CENG 407	Principles of Embedded Systems Design	3	0	0	3	5
CENG 409	System Programming	3	0	0	3	5
CENG 411	Introduction to Computer Graphics	3	0	0	3	5
CENG 413	Introduction to Natural Language Processing	3	0	0	3	5
CENG 415	Introduction to Bioinformatics	3	0	0	3	5
CENG 406	Software Design Patterns	3	0	0	3	5
CENG 408	Logic for Computer Sciences	3	0	0	3	5
CENG 410	Computer and Network Security	3	0	0	3	5
CENG 412	Compiler Design	3	0	0	3	5
CENG 414	Real Time Systems	3	0	0	3	5
CENG 416	Information Retrieval Systems	3	0	0	3	5
CENG 418	Fundamental Image Processing Techniques	3	0	0	3	5