



## Curriculum Table

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Unit: Computer Engineering Department

Rev/ Issue Date

2-19/1/2019

### First Grade

Fall Term/First Semester				
Code	Course Name	Theory	Practice	Credit ECTS
CMPE 104	Computing Algorithms Fundamentals	2	2	3 5
CMPE 103	Introduction to Computers	1	2	2 3
CMPE 161	Calculus I	4	0	4 6
CMPE 171	General Physics I	2	2	3 4
DBT 101	Academic Debate and Critical Thinking	2	0	2 3
ELT 103	Advanced English	3	0	3 4
KUR 105	Kurdology I	2	0	2 2
	Non-Technical Elective I	2	0	2 3
Total				21 30

Spring Term/Second Semester				
Code	Course Name	Theory	Practice	Credit ECTS
CMPE 154	Discrete Structures	3	0	3 4
CMPE 105	Programming Fundamentals	1	4	3 5
CMPE 162	Calculus II	4	0	4 5
CMPE 178	General Physics II	2	2	3 4
GEN 122	Interpersonal Dynamics and Character Building	2	0	2 3
ELT 104	Technical English	3	0	3 4
KUR 106	Kurdology II	2	0	2 2
	Non-Technical Elective II	2	0	2 3
Total				22 30

### Second Grade

Fall Term/Third Semester				
Code	Course Name	Theory	Practice	Credit ECTS
CMPE 200	Advanced Programming	3	2	4 7
CMPE 253	Electrical Circuits	3	2	4 6
CMPE 211	Probability and Statistics	3	0	3 5
CMPE 241	Linear Algebra	3	0	3 5
CMPE 213	Engineering Mathematics	2	0	2 4
	Non-Technical Elective III	2	0	2 3
Total				18 30

Spring Term/Fourth Semester				
Code	Course Name	Theory	Practice	Credit ECTS
CMPE 214	Programming Language Concepts	3	0	3 4
CMPE 202	Database System Concepts	3	2	4 5
CMPE 203	Data Structures and Algorithms	3	2	4 7
CMPE 248	Electronics	3	2	4 6
CMPE 204	Numerical Analysis	3	2	4 5
	Non-Technical Elective IV	2	0	2 3
Total				21 30

### Third Grade

Fall Term/Fifth Semester				
Code	Course Name	Theory	Practice	Credit ECTS
CMPE 301	Operating Systems	3	0	3 5
CMPE 303	Object-Oriented Programming	3	2	4 7
CMPE 331	Digital Logic Design	3	2	4 6
CMPE 353	Computer Networks I	2	2	3 6
	Technical Elective I	3	0	3 6
Total				17 30

Spring Term/Sixth Semester				
Code	Course Name	Theory	Practice	Credit ECTS
CMPE 302	Automata Theory and Formal Languages	3	0	3 4
CMPE 332	Microprocessors and Microcontrollers	3	2	4 6
CMPE 352	Computer Architecture and Organization	3	0	3 5
CMPE 354	Computer Networks II	3	2	4 5
CMPE 304	Internship	1	2	2 4
	Technical Elective II	3	0	3 6
Total				19 30

### Fourth Grade

Fall Term/Seventh Semester				
Code	Course Name	Theory	Practice	Credit ECTS
CMPE 401	Software Engineering	3	0	3 6
CMPE 405	Research Methodology	3	0	3 6
	Technical Elective III	3	0	3 6
	Technical Elective IV	3	0	3 6
	Technical Elective V	3	0	3 6
Total				15 30

Spring Term/Eighth Semester				
Code	Course Name	Theory	Practice	Credit ECTS
CMPE 406	Graduation Project	3	0	3 6
	Technical Elective VI	3	0	3 6
	Technical Elective VII	3	0	3 6
	Technical Elective VIII	3	0	3 6
	Technical Elective IX	3	0	3 6
Total				15 30

### Electives

Technical Electives				
Code	Course Name	Theory	Practice	Credit ECTS
CMPE 411	Artificial Intelligence	3	0	3 6
CMPE 425	Advanced Database Concepts	2	2	3 6
CMPE 435	Computer Security	2	2	3 6
CMPE 400	Robotics	2	2	3 6
CMPE 413	Human-Computer Interaction	3	0	3 6
CMPE 424	Advanced Wireless Networks	3	0	3 6
CMPE 453	Introduction to Cryptography	3	0	3 6
CMPE 452	Introduction to Management Information Systems	3	0	3 6
CMPE 454	Digital Image Processing	2	2	3 6
CMPE 456	Digital Signal processing	2	2	3 6
CMPE 445	Computer Systems and Programming	2	2	3 6
CMPE 443	Mobile Applications Development	2	2	3 6
CMPE 442	Advanced Mobile Applications Development	2	2	3 6
CMPE 455	Introduction to Computer Graphics	3	0	3 6
CMPE 448	Control System	2	2	3 6
CMPE 451	Introduction to Data Mining	2	2	3 6
CMPE 341	Web Programming I	2	2	3 6
CMPE 342	Web Programming II	2	2	3 6
CMPE 407	Internet of Things (IoT)	2	2	3 6
CMPE 408	Embedded Systems	2	2	3 6
CMPE 409	Project Management	2	2	3 6
CMPE 410	Advanced Web Programming	2	2	3 6
CMPE 414	Cloud Computing	2	2	3 6
CMPE 415	Algorithms and Complexity	2	2	3 6

Non-Technical Electives				
Code	Course Name	Theory	Practice	Credit ECTS
TUR 121	Turkish I	2	0	2 3
TUR 122	Turkish II	2	0	2 3
TUR 223	Turkish III	2	0	2 3
GEN 201	Ecology	2	0	2 3
GEN 202	Musics	2	0	2 3
GEN 203	Art	2	0	2 3
GEN 204	Football	2	0	2 3
GEN 205	History of Art	2	0	2 3
GEN 206	Basketball	2	0	2 3
GEN 208	Volleyball	2	0	2 3
CMPE 218	Engineering Economy	2	0	2 3
CMPE 205	Computer Aided Design (CAD)	1	2	2 3

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