

## Computer Engineering Curriculum

### First Year: Fall Semester

# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur
1	25711	CMPE 101	Foundations of Computer Engineering	-	3	1
2	25712	MATH 163	Discrete Mathematics	-	3	1
3	25713	ENGL 191	Communication in English I	-	3	1
4	25714	MATH 151	Calculus I	-	4	1
5	25715	PHYS 101	Pyhsics I	-	4	1
S.Tot =5					Sem. Total	
					Sub- Total	

### First Year: Spring Semester

# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur
	25721	CMPE 100	Introduction to Computer Engineering	-	0	2
1	25722	CMPE 112	Programming Fundamentals	CMPE 101	4	1
2	25723	ENGL 192	Communication in English II	ENGL 191	3	1
3	25724	MATH 152	Calculus II	MATH 151	4	1
4	25725	PHYS 102	Pyhsics II	PHYS 101	4	1
5	25726	TUSL 181	Turkish as a Second Language (other Students)	-	2	0
		HIST 280	History of Turkish Reforms (TC/TRNC)			
S.Tot =5					Sem. Total	
					Sub- Total	

### Second Year: Fall Semester

# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur
1	25731	CMPE 223	Digital Logic Design	MATH 163	4	1
2	25732	CMPE 231	Data Structures	CMPE 112	4	1
3	25733	CMPE 211	Object-Oriented Programming	CMPE 112	4	1
4	25734	ENGL 201	Communication Skills	ENGL 192	3	1
5	25735	MATH 241	Linear Algebra and Ordinary Diff. Equations	MATH 151	4	1
S.Tot =5					Sem. Total	
					Sub- Total	

### Second Year: Spring Semester

# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur
1	25741	CMPE 224	Digital Logic Systems	CMPE 223	4	1
2	25742	CMPE 226	Electronics for Computer Engineers	MATH 241	4	1
3	25743	CMPE 242	Operating Systems	CMPE 112	4	1
4	25744	MATH 373	Numerical Analysis for Engineer	MATH 241	3	1
5	25745	BIOL 124(*)	Introduction to Molecular Biology and Genetics(*)	-	3 4	-
S.Tot =5					(*) or any other science course with Dept. Consent ( e.g. CHEM 101, BIOL 105, SCIE 130, etc.)	
					Sem. Total	
					Sub- Total	

### Third Year: Fall Semester

# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur
1	25751	CMPE 323	Microprocessors	CMPE 224	4	1
2	25752	CMPE 343	Systems Programming	CMPE 242	4	1
3	25753	CMPE 371	Analysis of Algorithms	CMPE 231	4	1
4	25754	CMPE 321	Signals and Systems for Computer Engineers	CMPE 226	4	1
5	25755	MATH 322	Probability and Statistical Methods	MATH 151	3	1
S.Tot =5					Sem. Total	
					Sub- Total	

### Third Year: Spring Semester

# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur
1	25761	CMPE 324	Computer Architecture and Orgaization	CMPE 224	4	1
2	25762	CMPE 344	Computer Networks	CMPE 242	4	1
3	25763	CMPE 354	Database Management Systems	CMPE 231	4	1
4	25764	CMPE 318	Principles of Programming Languages	CMPE 211	4	1
5	25765	UE- 01	Uni. Elective I- Arts & Humanities	-	3	-
S.Tot =5					Sem. Total	
					Sub- Total	

### Fourth Year: Fall Semester

# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur
-	25771	CMPE 400	Summer Practice	-	0	0
1	25772	AE 01	Area Elective I	-	3 4	1
2	25773	AE 02	Area Elective II	-	3 4	1
3	25774	AE 03	Area Elective III	-	3 4	1

4	25775	CMPE 471	Automata Theory	MATH 163	4	1
-	25776	CMPE 405	Graduation Project I	-	1	0
5	25777	IENG 355	Ethics in Engineering(**)	-	3	0
S.Tot =5					Sem. Total	
					Sub- Total	

**Fourth Year: Spring Semester**

# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur
1	25781	CMPE 412	Software Engineering	CMPE 211	4	1
2	25782	AE 04	Area Elective IV	-	3 4	1
3	25783	UE-02	Uni. Elective II- Arts & Humanities	-	3	-
4	25784	UE-03	Uni. Elective III (***)	-	3	-
5	25785	CMPE 406	Graduation Project II	CMPE 405	3	1
S.Tot =5					Sem. Total	
C.tot=40					Sub- Total	

(\*\*\*) ECON/MGMT/FIN/BANK/ACCT Fields

Cr.	ECTS
3	6
3	5
3	5
4	7
4	7
17	30
17	30

Cr.	ECTS
0	2
4	7
3	5
4	7
4	7
2	2
17	30
34	60

Cr.	ECTS
4	7
4	6
4	7
3	4
4	6
19	30
53	90

Cr.	ECTS
4	7
4	7
4	6
3	5
3 4	5
18 19	30
71 72	120

Cr.	ECTS
4	7
4	6
4	6
4	6
3	5
19	30
90 91	150

Cr.	ECTS
4	7
4	6
4	7
4	6
3	4
19	30
109 110	180

Cr.	ECTS
0	1
3 4	6
3 4	6
3 4	6

4	6
1	2
3	5
17 20	32
126 130	212

Cr.	ECTS
4	7
3 4	6
3	4
3	4
3	7
16 17	28
142 147	240

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