



FACULTY OF ENGINEERING AND NATURAL SCIENCES
DEPARTMENT OF COMPUTER ENGINEERING
COMPUTER ENGINEERING PROGRAMME (IN ENGLISH)
2024-2025 SEMESTER UNDERGRADUATE CURRICULUM

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Semester 1

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
PHYS113	Physics-I	2	2	3	5	Compulsory	
MATH113	Mathematics I	3	2	4	6	Compulsory	
CENG103	Introduction to Computer Engineering	3	0	3	7	Compulsory	
CENG101	Introduction to Algorithms and Programming	2	2	3	8	Compulsory	
	Elective Foreign Language	2	2	3	4	Elective	
Total Credit				16		30	

Semester 2

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
PHYS114	Physics-II	2	2	3	5	Compulsory	PHYS113
MATH114	Mathematics II	3	2	4	6	Compulsory	MATH113
CENG106	Object Oriented Programming-I	2	2	3	7	Compulsory	CENG101
CENG110	Discrete Structures	3	0	3	5	Compulsory	
CLP001	Career and Life Planning	0	2	1	3	Compulsory	
	Elective Foreign Language	2	2	3	4	Elective	
Total Credit				17		30	

Semester 3

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
MATH265	Probability & Statistics I	3	0	3	5	Compulsory	MATH113
MATH215	Mathematics III	2	2	3	6	Compulsory	MATH113
CENG213	Object Oriented Programming -II	2	2	3	5	Compulsory	CENG106
CENG203	Data Structures	3	0	3	5	Compulsory	CENG106
CENG215	Digital Electronics Circuits	2	2	3	4	Compulsory	
IE367	Occupational Health and Safety	3	0	3	5	Compulsory	
Total Credit				18		30	

Semester 4

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
MATH216	Mathematics IV	2	2	3	6	Compulsory	MATH114
MATH220	Numerical Methods	2	2	3	4	Compulsory	MATH113
CENG210	Digital Circuit Design	2	2	3	5	Compulsory	CENG110
CENG218	Programming Languages and Applications	2	2	3	5	Compulsory	CENG106
CENG214	Operating Systems	3	0	3	5	Compulsory	
CENG216	Computer Networks - I	3	0	3	5	Compulsory	
Total Credit				18		30	

Semester 5

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
TRD111	Turkish-I	2	0	2	2	Compulsory	
CENG317	Computer Architecture	3	0	3	6	Compulsory	CENG210
CENG313	Automata Theory	3	0	3	5	Compulsory	CENG110
CENG319	Algorithm Analysis	3	0	3	5	Compulsory	
	Program Elective Course	3	0	3	7	Elective	
	Faculty Elective Course	3	0	3	5	Elective	
Total Credit				17		30	

Semester 6

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
TRD112	Turkish-II	2	0	2	2	Compulsory	
CENG318	Microprocessors	2	2	3	4	Compulsory	CENG210
CENG314	Software Engineering	3	0	3	5	Compulsory	CENG106
ECO102	Macroeconomics	3	0	3	7	Compulsory	
	Program Elective Course	3	0	3	7	Elective	
	Faculty Elective Course	3	0	3	5	Elective	
Total Credit				17		30	

Semester 7

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
CENG497	Computer Engineering Design	0	2	1	4	Compulsory	
BBA222	Entrepreneurship Applications	2	0	2	3	Compulsory	
ATA111	Atatürk Principles and The History of Turkish Revolution I	2	0	2	2	Compulsory	
CENG413	Software Quality Standards	3	0	3	9	Compulsory	
INT001	Internship I	0	0	0	4	Compulsory	
	Program Elective Course	3	0	3	7	Elective	
Total Credit				11		29	

Semester 8

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
CENG498	Computer Engineering Graduation Project	0	4	2	4	Compulsory	
ATA112	Atatürk Principles and The History of Turkish Revolution II	2	0	2	2	Compulsory	
INT002	Internship 2	0	0	0	4	Compulsory	
	Program Elective Course	3	0	3	7	Elective	
	Program Elective Course	3	0	3	7	Elective	
	Program Elective Course	3	0	3	7	Elective	
Total Credit				13		31	

TOTAL CREDIT	127
TOTAL ECTS	240

Abbreviations: T=Weekly hours: theoretical; A=Weekly hours: application; C=Credits in Turkish System; ECTS= European Credit Transfer System



ELECTIVE COURSES

Semester 1

Table for Semester 1 elective courses with columns: Code, Course Title, T, A, C, ECTS, Status, Prerequisite. Rows include SECOND FOREIGN LANGUAGE, DEPARTMENTAL ELECTIVE, FACULTY ELECTIVE, and UNIVERSITY ELECTIVE.

Semester 2

Table for Semester 2 elective courses with columns: Code, Course Title, T, A, C, ECTS, Status, Prerequisite. Rows include SECOND FOREIGN LANGUAGE, DEPARTMENTAL ELECTIVE, FACULTY ELECTIVE, and UNIVERSITY ELECTIVE.

Semester 3

Table for Semester 3 elective courses with columns: Code, Course Title, T, A, C, ECTS, Status, Prerequisite. Rows include SECOND FOREIGN LANGUAGE, DEPARTMENTAL ELECTIVE, FACULTY ELECTIVE, and UNIVERSITY ELECTIVE.

Semester 4

Table for Semester 4 elective courses with columns: Code, Course Title, T, A, C, ECTS, Status, Prerequisite. Rows include SECOND FOREIGN LANGUAGE, DEPARTMENTAL ELECTIVE, FACULTY ELECTIVE, and UNIVERSITY ELECTIVE.

Semester 5

Table for Semester 5 elective courses with columns: Code, Course Title, T, A, C, ECTS, Status, Prerequisite. Rows include DEPARTMENTAL ELECTIVE, FACULTY ELECTIVE, and UNIVERSITY ELECTIVE. Lists various courses like Database Management Systems, File Organization and Management, etc.

Semester 6

Table for Semester 6 elective courses with columns: Code, Course Title, T, A, C, ECTS, Status, Prerequisite. Rows include DEPARTMENTAL ELECTIVE, FACULTY ELECTIVE, and UNIVERSITY ELECTIVE. Lists various courses like Database Management Systems, File Organization and Management, etc.

Semester 7

Table for Semester 7 elective courses with columns: Code, Course Title, T, A, C, ECTS, Status, Prerequisite. Rows include DEPARTMENTAL ELECTIVE, FACULTY ELECTIVE, and UNIVERSITY ELECTIVE. Lists various courses like File Organization and Management, Graphical Interface Design, etc.

Semester 8

Table for Semester 8 elective courses with columns: Code, Course Title, T, A, C, ECTS, Status, Prerequisite. Rows include DEPARTMENTAL ELECTIVE, FACULTY ELECTIVE, and UNIVERSITY ELECTIVE. Lists various courses like File Organization and Management, Graphical Interface Design, etc.