

**ISTINYE UNIVERSITY**  
**FACULTY OF ENGINEERING**  
**DEPARTMENT OF COMPUTER ENGINEERING**

**1. SEMESTER COURSE PLAN (Fall)**

Code	Course	T+P	ECTS	Language Of Instruction
COE101	DIFFERENTIAL AND INTEGRAL CALCULUS	2+2	6	EN
COE103	COMPUTATIONAL THINKING	3+2	7	EN
COE105	ENGINEERING PHYSICS	3+1	6	EN
COE107	COMPUTING LITERACY	2+2	5	EN
COE109	ENGINEERING DESIGN	3+0	4	EN
TRK101	TURKISH LANGUAGE I	2+0	2	TR
<b>Total</b>		<b>22</b>	<b>30</b>	

**3. SEMESTER COURSE PLAN (Fall)**

Code	Course	T+P	ECTS	Language Of Instruction
COE201	PROBLEM SOLVING WITH COMPUTERS IN C	3+2	7	EN
COE203	DIGITAL LOGIC DESIGN	3+2	7	EN
COE205	SIGNALS AND SYSTEMS	3+2	7	EN
	DEPARTMENT ELECTIVE	2+2	5	EN
DIL101	GENERAL ENGLISH I	2+0	2	EN
ATA101	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I	2+0	2	TR
SEG001	MANIFEST OF ISTINYE I	0+1	1	EN
<b>Total</b>		<b>24</b>	<b>31</b>	

**5. SEMESTER COURSE PLAN (Fall)**

Code	Course	T+P	ECTS	Language Of Instruction
COE301	DATA STRUCTURES AND ALGORITHMS	3+2	7	EN
COE303	ADVANCED DIGITAL SYSTEM DESIGN	3+2	7	EN
COE305	MACHINE LEARNING	3+2	7	EN
	DEPARTMENT ELECTIVE	2+2	5	EN
	UNIVERSITY ELECTIVE	2+2	5	EN
<b>Total</b>		<b>23</b>	<b>31</b>	

**7. SEMESTER COURSE PLAN (Fall)**

Code	Course	T+P	ECTS	Language Of Instruction
COE401	CAPSTONE PROJECT I	3+2	7	EN
COE403	VHDL and FPGA SYSTEM DESIGN	3+2	7	EN
	DEPARTMENT ELECTIVE	2+2	5	EN
	DEPARTMENT ELECTIVE	2+2	5	EN
	UNIVERSITY ELECTIVE	2+2	5	EN
SEG003	MANIFEST OF ISTINYE III	0+1	1	EN
<b>Total</b>		<b>23</b>	<b>30</b>	

Code	DEPARTMENT ELECTIVES	T+P	ECTS	Language Of Instruction
COE001	Directed Research	2+2	5	EN
COE002	Engineering Ethics	2+2	5	EN
COE003	Biomedical Imaging	2+2	5	EN
COE004	Cyber-Physical Systems and Security	2+2	5	EN
COE005	Advanced Cryptography	2+2	5	EN
COE006	Theoretical Computer Science	2+2	5	EN
COE007	Computer Security	2+2	5	EN
COE008	Computer Graphics	2+2	5	EN
COE009	Mobile Application Development	2+2	5	EN
COE010	Hardware Software Interfaces	2+2	5	EN
COE011	Parallel Computing	2+2	5	EN
COE012	Data Mining	2+2	5	EN
COE013	Database Systems	2+2	5	EN
COE014	Introduction to Robotics	2+2	5	EN
COE015	Biological and Artificial Vision	2+2	5	EN
COE016	Machine Learning	2+2	5	EN
COE017	Principals of Artificial Intelligence	2+2	5	EN
COE018	Neuromorphic Engineering	2+2	5	EN

**2. SEMESTER COURSE PLAN (Spring)**

Code	Course	T+P	ECTS	Language Of Instruction
COE102	LINEAR ALGEBRA WITH APPLICATIONS	2+2	6	EN
COE104	COMPUTATIONAL MATHEMATICS	3+2	7	EN
COE106	ELECTRONIC PHYSICS AND SYSTEMS	3+1	6	EN
COE108	HUMAN BODY	2+2	4	EN
COE110	COMPUTER AIDED DESIGN	2+2	5	EN
TRK102	TURKISH LANGUAGE II	2+0	2	TR
<b>Total</b>		<b>23</b>	<b>30</b>	

**4. SEMESTER COURSE PLAN (Spring)**

Code	Course	T+P	ECTS	Language Of Instruction
COE202	PROBLEM SOLVING WITH COMPUTERS IN C++	3+2	7	EN
COE204	DIGITAL SYSTEM DESIGN	3+2	7	EN
COE206	PRINCIPALS OF ARTIFICIAL INTELLIGENCE	3+2	7	EN
	DEPARTMENT ELECTIVE	2+2	5	EN
DIL102	GENERAL ENGLISH II	2+0	2	EN
ATA102	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION II	2+0	2	TR
SEG002	MANIFEST OF ISTINYE II	0+1	1	EN
<b>Total</b>		<b>24</b>	<b>31</b>	

**6. SEMESTER COURSE PLAN (Spring)**

Code	Course	T+P	ECTS	Language Of Instruction
COE302	MICROPROCESSOR SYSTEM DESIGN	3+2	7	EN
COE304	COMPUTER ARCHITECTURE	3+2	7	EN
COE306	CRYPTOGRAPHIC ENGINEERING	3+2	7	EN
	DEPARTMENT ELECTIVE	2+2	5	EN
	DEPARTMENT ELECTIVE	2+2	5	EN
<b>Total</b>		<b>23</b>	<b>31</b>	

**8. SEMESTER COURSE PLAN (Spring)**

Code	Course	T+P	ECTS	Language Of Instruction
COE402	CAPSTONE PROJECT II	3+2	7	EN
COE404	HUMAN-COMPUTER INTERACTION	3+2	7	EN
	DEPARTMENT ELECTIVE	2+2	5	EN
	DEPARTMENT ELECTIVE	2+2	5	EN
	DEPARTMENT ELECTIVE	2+2	5	EN
SEG004	MANIFEST OF ISTINYE IV	0+1	1	EN
<b>Total</b>		<b>23</b>	<b>30</b>	

Code	UNIVERSITY ELECTIVES	T+P	ECTS	Language Of Instruction
UNI 001	Alternative and Renewable Energy	2+2	5	TR
UNI 002	Introduction to Anthropology	2+2	5	TR
UNI 003	Nutrition Misconceptions	2+2	5	TR
UNI 004	Introduction to Modern Art	2+2	5	TR
UNI 005	Digital Media Literacy	2+2	5	TR
UNI 006	Entrepreneurship in Dietetics	2+2	5	TR
UNI 007	Intellectual History	2+2	5	TR
UNI 008	Rhetoric and Diction	2+2	5	TR
UNI 009	Rhetoric and Presentation Techniques	2+2	5	TR
UNI 010	Introduction to Philosophy	2+2	5	TR
UNI 011	Introduction to New Media	2+2	5	TR
UNI 012	Convincing and Effective Communication	2+2	5	TR
UNI 013	Communication Methods	2+2	5	TR
UNI 014	Sign Language	2+2	5	TR
UNI 015	Preventive Healthcare and Health Literacy	2+2	5	TR
UNI 016	Leadership Strategies	2+2	5	TR
UNI 017	Logistics Management	2+2	5	TR
UNI 018	Media Literacy	2+2	5	TR
UNI 019	Entrepreneurship	2+2	5	TR
UNI 020	Psychological Skills	2+2	5	TR
UNI 021	Public Speaking	2+2	5	TR
UNI 022	Health Economics	2+2	5	TR
UNI 023	Healthy Life and Physical Activity	2+2	5	TR
UNI 024	Technological Conversion in Turkish Defense Industry	2+2	5	TR
UNI 025	Introduction to Sociology	2+2	5	TR
UNI 026	International Organisations	2+2	5	TR
UNI 027	Management Skills	2+2	5	TR
UNI 028	Introduction to Optimisation	2+2	5	TR
UNI 029	Monumental Architecture of Istanbul	2+2	5	TR

**DESCRIPTION**

T: Theoric

P: Practice

ECTS: European Credit Transfer System