

**ISTINYE UNIVERSITY**  
**FACULTY OF ENGINEERING**  
**DEPARTMENT OF SOFTWARE ENGINEERING**

1. SEMESTER COURSE PLAN (Fall)				
Code	Course	T+P	ECTS	Language Of Instruction
YAZ101	Differential and Integral Calculus	2+2	6	TR
YAZ103	Basic Programming 1 (Python)	3+2	7	TR
YAZ105	Engineering Physics	3+1	6	TR
YAZ107	Unix Operating System	3+1	6	TR
TRK101	Turkish 1	2+0	2	TR
DIL101	General English 1	2+0	2	EN
<b>Total</b>		<b>21</b>	<b>29</b>	

3. SEMESTER COURSE PLAN (Fall)				
Code	Course	T+P	ECTS	Language Of Instruction
YAZ201	Algorithms 1	3+1	6	TR
YAZ203	Basic Data Structures 1	3+1	6	TR
YAZ205	Theory of Programming and Practice 1 (C)	3+2	7	TR
YAZ207	Linear Algebra	2+2	6	TR
ATA101	Ataturk's Principles and History of Revolution 1	2+0	2	TR
	Department Elective Course	4+0	5	EN
SEG001	Manifest of Istinye 1	0+1	1	TR
<b>Total</b>		<b>24</b>	<b>33</b>	

5. SEMESTER COURSE PLAN (Fall)				
Code	Course	T+P	ECTS	Language Of Instruction
YAZ301	Operating Systems	3+1	6	TR
YAZ305	Principles of Machine Intelligence	3+2	7	TR
YAZ307	Theory of Programming and Practice 3 (C++)	3+2	7	TR
	Department Elective Course	2+2	5	TR
	University Elective Course (Professional English 3)	4+0	5	EN
SEG003	Manifest of Istinye 3	0+1	1	TR
<b>Total</b>		<b>23</b>	<b>31</b>	

7. SEMESTER COURSE PLAN (Fall)				
Code	Course	T+P	ECTS	Language Of Instruction
YAZ401	Deep Machine Learning	3+2	7	TR
YAZ403	Computer Security	3+1	6	TR
	Department Elective Course	2+2	5	TR
	Department Elective Course	2+2	5	TR
YAZ791	Capstone Project 1	3+2	7	TR
<b>Total</b>		<b>22</b>	<b>30</b>	

Code	DEPARTMENT ELECTIVES	T+P	ECTS	Language Of Instruction
YAZ001	Syber-Physical System Security	2+2	5	TR
YAZ002	Computational Biology	2+2	5	TR
YAZ003	Embedded Sytems	2+2	5	TR
YAZ004	Parallel Computers	2+2	5	TR
YAZ005	Theory of Programming Languages	2+2	5	TR
YAZ006	Compliers	2+2	5	TR
YAZ007	Real-Time Systems	2+2	5	TR
YAZ008	Computer Games	2+2	5	TR
YAZ009	Multi Media Programming	2+2	5	TR
YAZ010	Computer Architecture	2+2	5	TR
YAZ011	Data Mining	2+2	5	TR
YAZ012	Distributed Systems	2+2	5	TR
YAZ013	Artificial Vision	2+2	5	TR
YAZ014	Advanced Web Programming	2+2	5	TR
YAZ015	Advanced Cryptography	2+2	5	TR
YAZ016	Advanced Network Programming	2+2	5	TR
YAZ017	Image Processing	2+2	5	TR
YAZ018	Cryptography	2+2	5	TR
YAZ019	Computer Graphics	2+2	5	TR
YAZ020	Database Systems	2+2	5	TR

2. SEMESTER COURSE PLAN (Spring)				
Code	Course	T+P	ECTS	Language Of Instruction
YAZ102	Computational Mathematics	3+2	7	TR
YAZ104	Basic Programming 2 (Python)	3+2	7	TR
YAZ106	Unix Programming	3+1	6	TR
YAZ108	Electronics Physics and Systems	3+1	6	TR
TRK102	Turkish 2	2+0	2	TR
DIL102	Genel İngilizce 2	2+0	2	EN
<b>Total</b>		<b>22</b>	<b>30</b>	

4. SEMESTER COURSE PLAN (Spring)				
Code	Course	T+P	ECTS	Language Of Instruction
YAZ202	Algorithms 2	3+1	6	TR
YAZ204	Basic Data Structures 2	3+1	6	TR
YAZ206	Theory of Programming and Practice 2 (C++)	3+2	7	TR
	Department Elective Course	2+2	5	TR
ATA102	Ataturk's Principles and History of Revolution 2	2+0	2	TR
	University Elective Course (Professional English 2)	4+0	5	EN
SEG002	Manifest of Istinye 2	0+1	1	TR
<b>Total</b>		<b>24</b>	<b>32</b>	

6. SEMESTER COURSE PLAN (Spring)				
Code	Course	T+P	ECTS	Language Of Instruction
YAZ302	Theory of Programming and Practice 4 (iOS+Android)	3+2	7	TR
YAZ304	Neural Networks and Machine Learning	3+2	7	TR
	Department Elective Course	2+2	5	TR
	Department Elective Course	2+2	5	TR
	University Elective Course (Professional English 4)	4+0	5	EN
SEG004	Manifest of Istinye 4	0+1	1	TR
<b>Total</b>		<b>23</b>	<b>30</b>	

8. SEMESTER COURSE PLAN (Spring)				
Code	Course	T+P	ECTS	Language Of Instruction
YAZ402	Network Programming	3+1	6	TR
YAZ404	Theory of Computer	3+1	6	TR
	Department Elective Course	2+2	5	TR
	Department Elective Course	2+2	5	TR
YAZ792	Capstone Project 2	3+2	8	TR
<b>Total</b>		<b>21</b>	<b>30</b>	

Code	UNIVERSITY ELECTIVES	T+A	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	Introduciton 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