

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 Mathematics	2	2	6	TR
YAZ103	Basic Programming 1 (Python)	3	2	6	TR
YAZ105	Physics 1	4	1	6	TR
YAZ107	Unix Operating System	3	1	6	TR
YAZ109	Occupational health and Safety 1	2	0	2	
TRK101	Turkish Language 1	2	0	2	TR
DIL101	General English 1	2	0	2	EN
Total		19	6	30	

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	Programming Theory and Practice 1 (C)	3	2	6	TR
YAZ207	Linear Algebra	2	2	5	TR
ATA101	Ataturk's Principles and History of Revolution 1	2	0	2	TR
	University Elective Course (English for Specific Purposes 1)	4	0	5	EN
SEG001	Manifest of Istinye 1	0	1	1	TR
Total		17	7	31	

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	1	6	TR
YAZ307	Programming Theory and Practice 2 (C++)	3	2	7	TR
	Department Elective Course	2	2	5	TR
	University Elective Course (English for Academic Purposes 1)	4	0	5	EN
SEG003	Manifest of Istinye 3	0	1	1	TR
Total		15	7	30	

7. SEMESTER COURSE PLAN (Fall)

Code	Course	T+P	ECTS	Language Of Instruction	
YAZ401	Deep Machine Learning	3	1	6	TR
YAZ403	Computer Security	3	1	6	TR
YAZ405	Summer Internship	2	0	2	
	Department Elective Course	2	2	5	TR
	Department Elective Course	2	2	5	TR
YAZ491	Thesis 1	3	2	7	TR
Total		15	8	31	

Code	DEPARTMENT ELECTIVES	T+P	ECTS	Language Of Instruction	
YAZ001	Cyber-Physical System Security	2	2	5	TR
YAZ002	Computational Biology	2	2	5	TR
YAZ003	Embedded Systems	2	2	5	TR
YAZ004	Parallel Computers	2	2	5	TR
YAZ005	Programming Languages Theory	2	2	5	TR
YAZ006	Compilers	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	Machine Vision	2	2	5	TR
YAZ014	Advanced Web Programming	2	2	5	TR
YAZ015	Advanced Cryptography	2	2	5	TR
YAZ016	Advanced Networking	2	2	5	TR
YAZ017	Image Processing	2	2	5	TR
YAZ019	Computer Graphics	2	2	5	TR
YAZ020	Database Systems	2	2	5	TR
YAZ021	Computational Matrix Operations	2	2	5	TR
YAZ022	Graph Algorithms	2	2	5	TR
YAZ023	Java Script and Active Web	2	2	5	TR
YAZ026	Software Construction	2	2	5	TR
YAZ027	Theoretical Computer Science	2	2	5	TR
YAZ028	E-Commerce Platforms Development	2	2	5	TR
YAZ029	ERP (Enterprise Resource Planning) Systems	2	2	5	TR
YAZ030	Computational Thinking (Python)	2	2	5	TR
YAZ034	Machine Vision (C++)	2	2	5	TR
YAZ035	Formal Languages and Automata Theory	2	2	5	TR
YAZ036	Software Quality and Test	2	2	5	TR
YAZ037	Web Programming	2	2	5	TR
YAZ038	Visual Programming	2	2	5	TR
YAZ039	Analysis and Design of Software Systems	2	2	5	TR

2. SEMESTER COURSE PLAN (Spring)

Code	Course	T	P	ECTS	Language Of Instruction
YAZ102	Computational Mathematics	3	3	6	TR
YAZ104	Basic Programming 2 (Python)	3	2	6	TR
YAZ106	Unix Programming	3	2	6	TR
YAZ108	Physics 2	4	1	6	TR
YAZ110	Occupational health and Safety 2	2	0	2	
TRK102	Turkish Language 2	2	0	2	TR
DIL102	General English 2	2	0	2	EN
Total		19	8	30	

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	Programming Theory and Practice 2 (C++)	3	2	6	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
Total		17	7	31	

6. SEMESTER COURSE PLAN (Spring)

Code	Course	T+P	ECTS	Language Of Instruction	
YAZ302	Programming Theory 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 (English for Academic Purposes 2)	4	0	5	EN
SEG004	Manifest of Istinye 4	0	1	1	TR
Total		14	9	30	

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
YAZ492	Thesis 2	3	2	7	TR
Total		13	8	29	

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