

ISTINYE UNIVERSITY
FACULTY OF ENGINEERING
DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING

1. SEMESTER COURSE PLAN (Fall)

Code	Course	T+P	ECTS	Language Of Instruction
ISE101	Differential and Integral Calculus	2+2	6	EN
ISE103	Computational Thinking	3+2	7	EN
ISE105	Engineering Physics	3+1	6	EN
ISE107	Computer Literacy	2+2	5	EN
ISE109	Engineering Design	3+0	4	EN
TRK101	Turkish Language 1	2+0	2	TR
Total		22	30	

3. SEMESTER COURSE PLAN (Fall)

Code	Course	T+P	ECTS	Language Of Instruction
ISE201	Differential Equations	2+2	6	EN
ISE203	Introduction to Systems Engineering	3+2	7	EN
ISE205	Manufacturing Principles	3+2	7	EN
	Department Elective	2+2	5	EN
DILL01	General English 1	2+0	2	EN
ATA101	Atatürk's Principles and History of Turkish Revolution 1	2+0	2	TR
SEG001	Manifest of Istinye 1	0+1	1	EN
Total		23	30	

5. SEMESTER COURSE PLAN (Fall)

Code	Course	T+P	ECTS	Language Of Instruction
ISE301	Operations Research 1	3+2	7	EN
ISE303	Quality Engineering and Reliability	3+2	7	EN
ISE305	Cost Analysis	3+2	7	EN
	Department Elective	2+2	5	EN
	University Elective	2+2	5	EN
Total		23	31	

7. SEMESTER COURSE PLAN (Fall)

Code	Course	T+P	ECTS	Language Of Instruction
ISE401	Capstone Project 1	3+2	7	EN
ISE403	Project Management 1	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 3	0+1	1	EN
Total		23	30	

Code	DEPARTMENT ELECTIVES	T+P	ECTS	Language Of Instruction
ISE001	Directed Research	2+2	5	EN
ISE002	Engineering Ethics	2+2	5	EN
ISE003	Engineering Economics	2+2	5	EN
ISE004	MULTIPLE CRITERIA DECISION MAKING	2+2	5	EN
ISE005	ADVANCED OPERATIONS RESEARCH	2+2	5	EN
ISE006	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	2+2	5	EN
ISE007	DATA MINING	2+2	5	EN
ISE008	DATA ANALYTICS AND VISUALIZATION	2+2	5	EN
ISE009	INFORMATION SYSTEMS ENGINEERING	2+2	5	EN
ISE010	ADVANCED SIMULATION	2+2	5	EN
ISE011	FINANCIAL ENGINEERING	2+2	5	EN
ISE012	STRATEGIC MANAGEMENT	2+2	5	EN
ISE013	DECISION SUPPORT SYSTEMS	2+2	5	EN
ISE014	STOCHASTIC PROCESSES	2+2	5	EN
ISE015	ENTERPRISE RESOURCE PLANNING	2+2	5	EN
ISE016	QUALITY MANAGEMENT	2+2	5	EN
ISE017	SPECIAL TOPICS IN INDUSTRIAL ENGINEERING	2+2	5	EN
ISE018	Nonlinear Programming	2+2	5	EN
ISE019	Database Management	2+2	5	EN
ISE020	Systems Simulation	2+2	5	EN
ISE021	Material Science	2+2	5	EN

2. SEMESTER COURSE PLAN (Spring)

Code	Course	T+P	ECTS	Language Of Instruction
ISE102	Linear Algebra with Applications	2+2	6	EN
ISE104	Computational Mathematics	3+2	7	EN
ISE106	Computer Aided Design	2+2	5	EN
ISE108	Electronic Physics and Systems	3+1	6	EN
ISE110	Human Body	2+2	4	EN
TRK102	Turkish Language 2	2+0	2	TR
Total		23	30	

4. SEMESTER COURSE PLAN (Spring)

Code	Course	T+P	ECTS	Language Of Instruction
ISE202	Probability Theory and Stoch Processes	2+2	5	EN
ISE204	Vector Calculus	2+2	6	EN
ISE206	Operations Research 1	3+2	7	EN
	Department Elective	2+2	5	EN
DILL02	General English 2	2+0	2	EN
ATA102	Atatürk's Principles and History of Turkish Revolution 2	2+0	2	TR
SEG002	Manifest of Istinye 2	0+1	1	EN
Total		22	28	

6. SEMESTER COURSE PLAN (Spring)

Code	Course	T+P	ECTS	Language Of Instruction
ISE302	Operations Research 2	3+2	7	EN
ISE304	Production Planning and Control	3+2	7	EN
ISE306	Manufacturing Processes	3+2	7	EN
	Department Elective	2+2	5	EN
	Department Elective	2+2	5	EN
Total		23	31	

8. SEMESTER COURSE PLAN (Spring)

Code	Course	T+P	ECTS	Language Of Instruction
ISE402	Capstone Project 2	3+2	7	EN
ISE404	Project Management 2	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 4	0+1	1	EN
Total		23	30	

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

ABBREVIATIONS:
T: Theoric
P: Practice
ECTS: European Credit Transfer System