

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

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

Code	Course	T+A	ECTS	Language Of Instruction
	ENGLISH I	8+4	14	EN
	UNIVERSITY GENERAL COURSE (HISTORY I)	2+0	2	TR
	UNIVERSITY GENERAL COURSE (TURKISH I)	2+0	2	TR
	UNIVERSITY GENERAL COURSE (MATHEMATICS I)	3+0	5	
	UNIVERSITY GENERAL COURSE (CRITICAL THINKING)	3+0	5	
	VICE SEMINARS I	1+0	2	EN/TR
<b>Total</b>		<b>23</b>	<b>30</b>	

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

Code	Course	T+A	ECTS	Language Of Instruction
	ENGLISH III	3+1	4	EN
	UNIVERSITY GENERAL COURSE (INTRODUCTION TO PROBABILITY AND STATISTICS)	3+0	5	
	FREE ELECTIVE I	3+2	6	
	INTRODUCTION TO SOFTWARE ENGINEERING	3+2	7	EN/TR
	DIGITAL LOGIC	3+2	7	EN/TR
	MANIFEST OF ISTINYE			EN/TR
<b>Total</b>		<b>22</b>	<b>30</b>	

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

Code	Course	T+A	ECTS	Language Of Instruction
	ENGLISH V	3+1	4	EN
	FREEE ELECTIVE III	3+2	6	
	PROGRAMMING LANGUAGES	3+2	6	EN/TR
	COMPUTER ARCHITECTURE	3+2	6	EN/TR
	DATA STRUCTURES AND ALGORITHMS	3+2	7	EN/TR
	MANIFEST OF ISTINYE			EN/TR
<b>Total</b>		<b>24</b>	<b>30</b>	

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

Code	Course	T+A	ECTS	Language Of Instruction
	FREE ELECTIVE V	3+2	6	
	OPERATING SYSTEMS	3+2	6	EN/TR
	ANALYSIS OF ALGORITHMS	3+2	6	EN/TR
	DEPARTMENT ELECTIVE I	3+2	6	EN/TR
	DEPARTMENT ELECTIVE II	3+2	6	EN/TR

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

Code	Course	T+A	ECTS	Language Of Instruction
	ENGLISH II	8+4	14	EN
	UNIVERSITY GENERAL COURSE (HISTORY II)	2+0	2	TR
	UNIVERSITY GENERAL COURSE (TURKISH II)	2+0	2	TR
	UNIVERSITY GENERAL COURSE (LINEAR ALGEBRA)	3+0	5	
	UNIVERSITY GENERAL COURSE (ENGINEERING ETHICS AND BASIC LAW)	2+0	5	
	VICE SEMINARS II	1+0	2	EN/TR
<b>Total</b>		<b>22</b>	<b>30</b>	

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

Code	Course	T+A	ECTS	Language Of Instruction
	ENGLISH IV	3+1	4	EN
	UNIVERSITY GENERAL COURSE (COMMUNICATION, REPORTING AND PRESENTATION TECHNIQUES)	2+0	5	
	FREE ELECTIVE II	3+2	6	
	ADVANCED COMPUTER PROGRAMMING	3+2	7	EN/TR
	DISCRETE MATHEMATICS	3+0	7	EN/TR
	MANIFEST IF ISTINYE			EN/TR
<b>Total</b>		<b>19</b>	<b>30</b>	

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

Code	Course	T+A	ECTS	Language Of Instruction
	ENGLISH VI	3+1	4	EN
	FREE ELECTIVE IV	3+2	6	
	DATABASE MANAGEMENT	3+2	6	EN/TR
	PROGRAMMING LABORATORY	1+2	6	EN/TR
	SOFTWARE LIFE CYCLE AND CONSTRUCTION	3+2	7	EN/TR
	MANIFEST OF ISTINYE			EN/TR
<b>Total</b>		<b>22</b>	<b>30</b>	

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

Code	Course	T+A	ECTS	Language Of Instruction
	SENIOR PROJECT	0+0	6	EN/TR
	SOFTWARE ENGINEERING MANAGEMENT	3+2	6	EN/TR
	SOFTWARE QUALITY MANAGEMENT	3+2	6	EN/TR
	DEPARTMENT ELECTIVE III	3+2	6	EN/TR
	DEPARTMENT ELECTIVE IV	3+2	6	EN/TR

	Total	25	30	
Code	DEPARTMENT ELECTIVES	T+A	ECTS	Language Of Instruction
	AUTOMATA THEORY	3+0	6	EN/TR
	INTRODUCTION TO COMPILER DESIGN	3+2	6	EN/TR
	DISTRIBUTED SYSTEMS	3+2	6	EN/TR
	ARTIFICIAL INTELLIGENCE	3+2	6	EN/TR
	COMPUTER GRAPHICS	3+2	6	EN/TR
	INTRODUCTION TO DATA MINING	3+2	6	EN/TR
	DATA AND NETWORK SECURITY	3+2	6	EN/TR
	INTRODUCTION TO MACHINE LEARNING	3+2	6	EN/TR
	MANAGEMENT INFORMATION SYSTEMS	3+2	6	EN/TR
	PARALLEL COMPUTING	3+2	6	EN/TR
	MOBILE PORGRAMMING	3+2	6	EN/TR
	ARTIFICAL NEURAL NETWORKS	3+2	6	EN/TR
	SYSTEM PROGRAMMING	3+2	6	EN/TR
	WEB APPLICATION DEVELEOPMENT	3+2	6	EN/TR
	COMPUTER NETWORKS AND NETWORK PROGRAMMING	3+2	6	EN/TR
	HUMAN COMPUTER INTERACTION	3+2	6	EN/TR

	Total	20	30	
Code	UNIVERSITY ELECTIVES	T+A	ECTS	Language Of Instruction
	MATHEMATICS I	3+0	5	
	LINEAR ALGEBRA	3+0	5	
	INTRODUCTION TO PROBABILITY AND STATISTICS	3+0	5	
	INTRODUCTION TO ECONOMICS	2+0	5	
	ENGINEERING ETHICS AND BASIC LAW	2+0	5	
	COMMUNICTATION; REPORTING AND PRESENTATION TECHNIQUES	2+0	5	
	INFORMATION TECHNOLOGIES AND TOOLS	2+0	5	

**DESCRIPTION**

**T:** Theoric

**P:** Practice

**ECTS:** European Credit Transfer System