SOFTWARE ENGINEERING DEPARTMENT CURRICULUM

1ST YEAR FALL TERM COURSES

ID	Code	Name of the Course	Prerequisite	Type of the Course	In-Class Hours (T+P)	Credit	ECTS Credit
	ENL101	**ENGLISH I**	-	Compulsory	3+0	3	3
	HIS101	**HISTORY ***	-	Compulsory	2+0	2	2
	TUR101	**TURKISH LANGUAGE***			2+0	2	2
	COM105	**COMPUTING FOUNDATIONS**	-	Compulsory	3+2	4	8
	COM103	**INTRODUCTION TO PROFESSION**	-	Compulsory	2+0	0	3
	ENG121	**PHYSICS I**	-	Compulsory	3+0	3	5
	ENG131	**PHYSICS I LAB**	-	Compulsory	0+2	1	2
	MAT101	**CALCULUS I**	-	Compulsory	3+2	4	7
					Total Credit: 17	**Total ECTS Credit: 30**	

1st YEAR SPRING TERM COURSES

ID	Code	Name of the Course	Prerequisite	Type of the Course	In-Class Hours (T+P)	Credit	ECTS Credit
	ENL102	**ENGLISH II**	ENL101	Compulsory	3+0	3	3
	COM102	**COMPUTER PROGRAMMING**	COM105	Compulsory	3+2	4	7
	ENG122	**PHYSICS II**	ENG121	Compulsory	3+0	3	6
	ENG132	**PHYSICS II LAB**	ENG131	Compulsory	0+2	1	2
	MAT102	**CALCULUS II**	MAT101	Compulsory	3+2	4	7
	MAT104	**LINEAR ALGEBRA**	MAT101	Compulsory	3+0	3	5
					Total Credit: 18	**Total ECTS Credit: 30**	

2nd YEAR FALL TERM COURSES

ID	Code	Name of the Course	Prerequisite	Type of the Course	In-Class Hours (T+P)	Credit	ECTS Credit
	COM203	**DIGITAL LOGIC DESIGN**	-	Compulsory	3+2	4	6
	MAT203	**DISCRETE MATHEMATICS**	MAT102	Compulsory	3+0	3	5
	COM205	**DATA STRUCTURES**	COM102	Compulsory	3+2	4	7
	MAT201	**ORDINARY DIFFERENTIAL EQUATIONS**	MAT101	Compulsory	3+2	4	5
	SEN201	**INTRODUCTION TO THE SOFTWARE ENGINEERING**	-	Compulsory	3+0	3	7
					Total Credit: 18	**Total ECTS Credit: 30**	

2nd YEAR SPRING TERM COURSES

ID	Code	Name of the Course	Prerequisite	Type of the Course	In-Class Hours (T+P)	Credit	ECTS Credit
	COM202	**OPERATING SYSTEMS**	COM102	Compulsory	3+0	3	7
	COM204	**OBJECT ORIENTED PROGRAMMING I**	COM102	Compulsory	3+2	4	8
	MAT202	**ENGINEERING MATHS**	MAT101	Compulsory	3+0	3	5
	MAT204	**PROBABLITY&STATISTIC METHODS**	MAT101	Compulsory	3+0	3	5

ID	Code	Name of the Course	Prerequisite	Type of the Course	In-Class Hours (T+P)	Credit	ECTS Credit
	SEN202	**SOFTWARE REQUIREMENTS ANALYSIS AND SPECIFICATION**	-	Compulsory	3+0	3	5
				Total Credit: 16		**Total ECTS Credit: 30**	

3rd YEAR FALL TERM COURSES

ID	Code	Name of the Course	Prerequisite	Type of the Course	In-Class Hours (T+P)	Credit	ECTS Credit
	COM303	**ANALYSIS OF ALGORITHMS**	COM102	Compulsory	3+0	3	4
	COM305	**DATABASE MANAGEMENT SYSTEMS**	COM205	Compulsory	3+2	4	7
	COM307	**SYSTEMS PROGRAMMING**	COM202	Compulsory	3+0	3	4
	SEN305	**SOFTWARE DESIGN AND ARCHITECTURE**	SEN202	Compulsory	3+0	3	5
	COM315	**OBJECT ORIENTED PROGRAMMING II**	COM102	Compulsory	3+2	4	8
	IUAXX1	**FREE ELECTIVE I**		Elective	3+0	3	2
				Total Credit: 20		**Total ECTS Credit: 30**	

3rd YEAR SPRING TERM COURSES

ID	Code	Name of the Course	Prerequisite	Type of the Course	In-Class Hours (T+P)	Credit	ECTS Credit
	COM306	**COMPUTER NETWORKS**	-	Compulsory	3+0	3	5
	COM302	**PRINCIPLES OF PROGRAMMING LANGUAGES**	COM204	Compulsory	3+2	4	7
	SEN308	**SOFTWARE QUALITY ASSURANCE AND TESTING**	COM102	Compulsory	3+0	3	5
	SEN312	**HUMAN COMPUTER INTERACTION**	-	Compulsory	3+0	3	6
	COMXX1	**TECHNICAL ELECTIVE I**	-	Elective	3+0	3	5
	IUAXX2	**FREE ELECTIVE II**	-	Elective	3+0	3	2
				Total Credit: 19		**Total ECTS Credit: 30**	

4th YEAR FALL TERM COURSES

ID	Code	Name of the Course	Prerequisite	Type of the Course	In-Class Hours (T+P)	Credit	ECTS Credit
	ECO441	**ENGINEERING ECONOMICS**	-	Compulsory	3+0	3	3
	BUS441	**STRATEGIC PLANNING AND MANAGEMENT**	-	Compulsory	3+0	3	4
	COM410	**SUMMER TRAINING**	-	Compulsory	0+0	0	1
	COM401	**GRADUATION PROJECT I**	-	Compulsory	0+3	1	10
	IUAXX3	**FREE ELECTIVE III**	-	Elective	3+0	3	2
	COMXX2	**TECHNICAL ELECTIVE II**	-	Elective	3+0	3	5
	COMXX3	**TECHNICAL ELECTIVE III**	-	Elective	3+0	3	5
				Total Credit: 16		**Total ECTS Credit: 30**	

4th YEAR SPRING TERM COURSES

ID	Code	Name of the Course	Prerequisite	Type of the Course	In-Class Hours (T+P)	Credit	ECTS Credit
	ENG444	**ENGINEERING ETHICS**	-	Compulsory	3+0	3	**5**
	COM402	**GRADUATION PROJECT II**	COM401	Compulsory	0+6	3	**10**
	COMXX4	**TECHNICAL ELECTIVE IV**	-	Elective	3+0	3	5
	COMXX5	**TECHNICAL ELECTIVE V**	-	Elective	3+0	3	5
	COMXX6	**TECHNICAL ELECTIVE VI**	-	Elective	3+0	3	5
					Total Credit: 15		**Total ECTS Credit: 30**

TECHNICAL ELECTIVE COURSES					
ID	Code	Name of the Course	In-Class Hours (T+P)	Credit	ECTS Credit
	COM304	**MICRPROCESSOR SYSTEMS**	3+2	4	5
	COM309	**SIGNALS AND SYSTEMS**	3+0	3	5
	COM206	**DIGITAL SYSTEM DESIGN**	3+0	3	5
	COM451	**PRINCIPLES OF DIGITAL IMAGE PROCESSING**	3+0	3	**5**
	COM453	**ARTIFICIAL NEURAL NETWORKS**	3+0	3	**5**
	COM455	**INTERNET PROGRAMMING**	3+0	3	5
	COM457	**AUTOMATA THEORY**	3+0	3	5
	COM459	**ADVANCED COMPUTER GRAPHICS**	3+0	3	5
	COM461	**DISCRETE EVENT SYSTEM SIMULATION**	3+0	3	5
	COM452	**ARTIFICIAL INTELLIGENCE**	3+0	3	5
	COM454	**WIRELESS COMMUNICATION**	3+0	3	5
	COM456	**JAVA PROGRAMMING**	3+0	3	5
	COM458	**MODERN PROGRAMMING PLATFORM**	3+0	3	5
	COM460	**DATABASE SECURITY**	3+0	3	5
	COM463	**PATTERN RECOGNITION**	3+0	3	5
	EEN405	**DIGITAL SIGNAL PROCESSING**	3+0	3	5
	SEN408	**SOFTWARE PROJECT MANAGEMENT**	3+0	3	5