

COMPUTER 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 TUR101	HISTORY * TURKISH LANGUAGE*	-	Compulsory	2+0 2+0	2 2	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 AND ALGORITHMS	COM102	Compulsory	3+2	4	7
	MAT201	ORDINARY DIFFERENTIAL EQUATIONS	MAT101	Compulsory	3+2	4	5
	COM207	ELECTRONICS FOR COMPUTER ENGINEERS	MAT101	Compulsory	3+2	4	7
				Total Credit: 19		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	6
	COM204	OBJECT ORIENTED PROGRAMMING I	COM102	Compulsory	3+2	4	8
	MAT202	ENGINEERING MATHS	MAT101	Compulsory	3+0	3	5
	MAT204	PROBABILITY&STATISTIC METHODS	MAT101	Compulsory	3+0	3	5
	COM206	DIGITAL SYSTEM DESIGN	COM203	Compulsory	3+0	3	5

	Total Credit: 16	Total ECTS Credit: 30
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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
	COM301	COMPUTER ARCHITECTURE AND ORGANIZATION	COM203	Compulsory	3+2	4	8
	COM309	SIGNALS AND SYSTEMS	COM207	Compulsory	3+0	3	5
	IUAXX1	FREE ELECTIVE I		Elective	3+0	3	2
				Total Credit: 20	Total ECTS Credit: 29		

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
	COM304	MICROPROCESSOR SYSTEMS	COM203	Compulsory	3+2	4	5
	COM308	SOFTWARE ENGINEERING	COM204	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: 20	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
	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
	SEN202	SOFTWARE REQUIREMENTS ANALYSIS AND SPECIFICATION	3+0	3	5
	SEN305	SOFTWARE DESIGN AND ARCHITECTURE	3+0	3	6
	SEN308	SOFTWARE QUALITY ASSURANCE AND TESTING	3+0	3	5
	SEN408	SOFTWARE PROJECT MANAGEMENT	3+0	3	5