Üsküdar University Faculty of Engineering and Natural Sciences Department of Computer Engineering 2022-2023 Academic Year (100% English) YEAR ONE

							TEA	K OINE							
	1st Term	_		_		2nd Term									
Code	Course Name	Т	Ρ	L	С	ECTS	Prerequisite	Code	Course Name	Т	Ρ	L	С	ECTS	Prerequisite
COME103	Introduction to Computer Engineering	3	0	0	3	4		COME102	Introduction to Algorithms and Programming*	2	0	2	3	4	
MATH101	Calculus I*	3	2	0	4	6		COME104	Discrete Mathematics	3	0	0	3	4	
PHYS101	Physics I*	3	0	2	4	6		MATH102	Calculus II*	3	2	0	4	6	
CHEM101	General Chemistry I*	3	0	2	4	6		MATH104	Basic Linear Algebra*	2	0	2	3	5	
ENG101	English-I	3	0	0	3	3		PHYS102	Physics II*	3	0	2	4	6	
RPSC109	Positive Psychology and Communication Skills	3	0	0	3	5		ENG102	English II	3	0	0	3	3	
RCUL101	University Culture I*	0	2	0	1	1		RCUL102	University Culture II*	0	2	0	1	1	
Total Credit	Total Credits		4	4	22	31		Total Credit	ts	16	4	6	21	29	

							YEAR	RIWO							
	3rd Term							4th Term							
Code	Course Name	Т	Ρ	L	С	ECTS	Prerequisite	Code	Course Name	Т	Ρ	L	С	ECTS	Prerequisite
COME205	Data Structures*	2	0	2	3	5	COME102	COME204	Logic Circuits*	3	0	2	4	6	
COME209	Introduction to Signals and Systems*	2	2	0	3	5	MATH101/2	COME206	Object Oriented Programming*	3	0	2	4	6	COME205
COME215	Electronic Circuits*	3	0	2	4	6	PHYS102	COMEXXX	Departmental Elective I	3	0	0	3	5	
MATH203	Differential Equations*	2	2	0	3	5		MATH204	Statistics	3	0	0	3	5	
RPRE104	Entrepreneurship and Project Culture	2	0	0	2	3		TURK102	Turkish Language II	2	0	0	2	3	
TURK101	Turkish Language I	2	0	0	2	3		ATA102	Principles of Atatürk and History of Turkish Revolution II	2	0	0	2	3	
ATA101	Principles of Atatürk and History of Turkish Revolution I	2	0	0	2	3		COME284	Summer Practice I**	0	0	0	0	5	
Total Credits		15	4	4	19	30		Total Credit	ts	16	0	4	18	33	

	YEAR THREE														
	5th Term					6th Term									
Code	Course Name	т	Ρ	L	С	ECTS	Prerequisite	Code	Course Name	т	Ρ	L	С	ECTS	Prerequisite
COME301	Database Management Systems*	2	0	2	3	5		COME302	Operating Systems	3	0	0	3	5	COME205
COME305	Analysis of Algorithms	3	0	0	3	5	COME205	COME322	Microprocessors*	2	0	2	3	5	COME315
COME315	Computer Architecture	3	0	0	3	5	COME204	COMEXXX	Departmental Elective III (Project Based)	3	0	0	3	5	
COMEXXX	Departmental Elective II (Project Based)	3	0	0	3	5		MATH302	Numerical Analysis	3	0	0	3	6	
XXXXXX	Field Elective I	3	0	0	3	5		COME384	Summer Practice II**	0	0	0	0	5	
XXXXXX	Elective (2nd Foreign Language)	3	0	0	3	5		XXXXXX	Social Elective I	3	0	0	3	5	
Total Credit	Total Credits		0	2	18	30		Total Credit	ts	14	0	2	15	31	

							YEAF	FOUR							
	7th Term								8th Term						
Code	Course Name	т	Ρ	L	С	ECTS	Prerequisite	Code	Course Name	Т	Ρ	L	С	ECTS	Prerequisite
COME413	Computer Networks	3	0	0	3	5		COME492	Graduation Thesis*	0	0	4	2	8	COME491
COME491	Graduation Project	2	0	0	2	7		COMEXXX	Departmental Elective V	3	0	0	3	5	
COMEXXX	Departmental Elective IV	3	0	0	3	5		COMEXXX	Departmental Elective VI	3	0	0	3	5	
XXXXXX	Field Elective II	3	0	0	3	5		XXXXXX	Field Elective IV	3	0	0	3	5	
XXXXXX	Field Elective III	3	0	0	3	5		XXXXXX	Social Elective II	3	0	0	3	5	
OHS401	Occupational Health and Safety I	2	0	0	2	2		OHS402	Occupational Health and Safety II	2	0	0	2	2	
Total Credit	Total Credits		0	0	16	29		Total Credit	ts	14	0	4	16	30	

Total Course Credits for Graduation	145
Total Course ECTS for Graduation	243
Total Elective Courses ECTS	65
Elective Course Ratio	27%

COME284 Hardware based summer practice	
COME384 Software based summer practice	
* These courses are under the Applied Course status.	
** These courses are under the Internship Course status.	

	Elective Course - Pool														
	Departmental Elective Cou		Social Elective Courses (Foreign Languages)												
Code	Course Name	Т	Ρ	LC	E	CTS	Prerequisite	Code	Course Name	Т	Ρ	L	С	ECTS	Prerequisite
COME218	Programming Languages	3	0	0 3	3	5		ARB123	Arabic I	3	0	0	3	5	
COME306	Digital Signal Processing	3	0	0 3	3	5		ARB124	Arabic II	3	0	0	3	5	ARB123
COME310	Real Time Systems	3	0	0 3	;	5		CHN123	Chinese I	3	0	0	3	5	
COME311	Data Security	3	0	0 3	3	5		CHN124	Chinese II	3	0	0	3	5	CHN123
COME312	User Interface Design	3	0	0 3	3	5		ESP123	Spanish I	3	0	0	3	5	
COME313	Mathematical Modelling	3	0	0 3	3	5		ESP124	Spanish II	3	0	0	3	5	ESP123
COME314	Introduction to Control Systems	3	0	0 3	:	5		FRN123	French I	3	0	0	3	5	
COME317	Intelligent Robotics	2	0	2 3		5		FRN124	French II	3	0	0	3	5	FRN123
COME318	Computer Graphics	3	0	0 3		5		GER123	German I	3	0	0	3	5	
COME319	Mobile Programming	2	0	2 3	5	5		GER124	German II	3	0	0	3	5	GER123
COME324	Visual Programming	2	0	2 3	3	5		RSN123	Russian I	3	0	0	3	5	
COME309	Web Programming	3	0	0 3		5		RSN124	Russian II	3	0	0	3	5	RSN123
COME401	Data Mining	3	0	0 3	3	5		Field Elective Courses							
COME402	Artificial Neural Networks	3	0	0 3	3	5		For Field	Elective courses, any departmental elective course ha	ving	ann	ron	riate	credite	from other
COME403	Software Engineering	3	0	0 3	3	5		Torricia	departments of Faculty of Engineering and Natural						
COME404	Fuzzy Controllers	3	0	0 3	5	5			departments of racuity of Engineering and Natural	Juich	ices	cai	i bc	ciccicu	
COME405	Artificial Intelligence	3	0	0 3	3	5			Social Elective Courses						
COME406	Parallel Computing	3	0	0 3	5	5									
COME407	Image Processing	3	0	0 3	5	5		For Social	Elective courses, either foreign language course or course	Irse	hav	ing	аррі	opriate	credits from
COME408	Network Security	3	0	0 3	3	5			other faculties can be elected	I.					
COME409	Automata Theory	3	0	0 3	3	5									
COME410	Systems Programming	3	0	0 3	1	5									
COME411	System Analysis and Design	3	0	0 3	3	5									
COME412	Embedded Systems	3	0	0 3	3	5									
COME414	Optimization Techniques	3	0	0 3	3	5									
COME416	Compiler Design	3	0	0 3	3	5									
COME418	Natural Language Processing	3	0	0 3	3	5									
COME420	Biomedical and Laboratory Instrumentation	3	0	0 3	3	5									