## Üsküdar University Faculty of Engineering and Natural Sciences Department of Software Engineering 2023-2024 Academic Year

Code   Course Name								YEAR O	NE							
SESSION   Introduction to Software Engineering**   2   2   0   3   4     COMESION   Comparating**   2   0   0   0   3   4		1st Term								2nd Term						
MATHOD  Calculus  T	Code	Course Name	Т	P	L	С	ECTS	Prerequisite	Code	Course Name	Т	P	L	С	ECTS	Prerequisite
Physical   Physical	SE101	Introduction to Software Engineering*	2	2	0	3	4		COME102	Introduction to Algorithms and Programming*	2	0	2	3	4	
CREMINIST   General Chemistry   F   3   0   2   4   6		Calculus I*								Discrete Mathematics						
Eligibi   English   English   English   English   Section   Protection   English   Section   Protection   English   Section   English   Section		Physics I*				4										
Post Decision Psychology and Communication Skills   3   0   0   3   5   MATHON   Busic Linear Algebra*   2   0   2   3   5   Total Credits   17   6   4   22   11   Total Credits   18   18   18   18   18   18   18   1		General Chemistry I*								Physics II*						
Total Credits   10   University Culture   1"   0   2   0   1   1   Total Credits   12"   6   4   22   31   Total Credits   15"   1	ENG101	English I	3		0	3	3		ENG102	English II		0	0	3	3	
Total Credits																
Section   Content   Cont	RCUL101	University Culture I*	0	2	0	1	1		RCUL102	University Culture II*	0	2	0	1	1	
Code   Course Name	Total Credits		17	6	4	22	31				16	4	6	21	29	
Code   Course Name		3rd Torm						YEAR T\	NO .	Ath Torm						
Section   Software Requirements Analysis   3   0   0   3   6	Code		т	P	T 1	r	FCTS	Prerequisite	Code		т	P	-	r	FCTS	Prerequisite
COMPAGE   Diject Oriented Programming								Trerequisite								Trerequisite
COMESSION   COME																
COMEZON   Computer Architecture								COME102								
MATH203   Olfferential Equations*								CONTEIDE								
TURK101   Turkish Language    2   0   0   2   3   ATA102   Principles of Atatürk and History of Turkish Revolution-II   2   0   0   0   2   3																
ATA101 Principles of Naturix and History of Turkish Revolution   2   0   0   2   3   SC284 Summer Practice   ***   0   0   0   0   0   0   5   SERECIAN   Total Credits																
RRPELION   Entrepreneurship and Project Culture   2																
Total Credits   State   Total Credits   Tota											-	-	-	-	-	
Sth Term																
Sth Term	Total Credits		18	2	4	21	33				14	0	4	16	31	
Code   Course Name								YEAR TH	REE							
Section   Software Validation and Testing*   2   0   2   3   5   SE302   Software Project Management*   2   0   2   3   5   SE302   Software Project Management*   2   0   2   3   5   SE302   Software Project Management*   2   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   3   5   SE302   Software Project Management*   3   0   0   0   3   5   SE302   Software Project Management*   3   0   0   0   0   0   0   0   0   0																
COMESION   Database Management Systems*   2   0   2   3   5   MATHSIQ2   Numerical Analysis   3   0   0   3   6   COMESION   Operating Systems*   2   0   2   3   4   NXXXXXX   Social Elective II (Project Based)   3   0   0   3   5   SEXXX   Departmental Elective II (Project Based)   3   0   0   3   5   SEXXX   Departmental Elective II (Project Based)   3   0   0   3   5   SEXXX   Departmental Elective II (Project Based)   3   0   0   3   5   SEXXX   Departmental Elective II (Project Based)   3   0   0   3   5   SEXXX   Departmental Elective II (Project Based)   3   0   0   3   5   SEXXX   Departmental Elective II (Project Based)   3   0   0   3   5   SEXXX   Departmental Elective II (Project Based)   3   0   0   0   3   5   SEXXX   Departmental Elective II (Project Based)   3   0   0   0   3   5   SEXXX   Departmental Elective II (Project Based)   3   0   0   0   3   5   SEXXX   Departmental Elective II (Project Based)   3   0   0   0   0   0   0   0   0   0								Prerequisite								Prerequisite
COMESTOR   Consideration   Computer   Comp																
SEXXX   Departmental Elective I (Project Based)   3   0   0   3   5   SEXXX   Departmental Elective II (Project Based)   3   0   0   3   5   SEXXX   Separation   Separation																
Note																
Social Elective																
Total Credits																
VEAR FOUR   Sth Term   Standard St	XXXXXX	Social Elective I	3	U	U	- 3	5		SE384	Summer Practice II**	U	U	U	U	5	
Total Credits	<b>Total Credits</b>		15	0	6	18	29		Total Credits		14	0	2	15	31	
Code   Course Name								YEAR FO	DUR							
SEA91   Graduation Project   2 0 0 0 2 8   SEA92   Graduation Thesis*   0 0 0 4 2 2 8   COME 491						,										
SEXXX   Departmental Elective III   3   0   0   3   5   SEXXX   Departmental Elective V   3   0   0   3   5   SEXX   Departmental Elective V   3   0   0   3   5   SEXXX   Departmental Elective V   3   0   0   3   5   SEXXX   Departmental Elective V   3   0   0   3   5   SEXXX   Departmental Elective V   0   3   SEXXX   Departmental Elective V   3   0   0   0   0   0								Prerequisite								
SEXXX   Departmental Elective IV   3   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   0   3   5   SEXXX   Departmental Elective VI   3   0   0   0   0   0   0   0   0   0																COME 491
COMP4613   Computer Networks   3   0   0   3   5																
XXXXXXX   Field Elective III   3   0   0   3   5   XXXXXXX   Social Elective III   3   0   0   3   5   XXXXXX   Social Elective III   3   0   0   0   3   5   XXXXXX   Social Elective III   3   0   0   0   3   5   XXXXXX   Social Elective III   2   0   0   0   2   2   XXXXXX   XXXXXX   XXXXXX   XXXXXXXX																
Occupational Health and Safety																
Total Credits																
Total Course Credits for Graduation	OHS401	Occupational Health and Safety I	2	0	0	2	2		OHS402	Occupational Health and Safety II	2	0	0	2	2	
Total Theoretical Hours	Total Credits		16	0	0	16	30		<b>Total Credits</b>		14	0	4	16	30	
Total Theoretical Hours																
Total Practice Hours   12	2023-2024						4									
2023-2024   Total Laboratory Hours   30   Total Course ECTS for Graduation   2444   Total Elective Courses ECTS   65						4										
Total Course ECTS for Graduation 244 Total Elective Courses ECTS 65							1									
Total Elective Courses ECTS 65						1										
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Elective Course Ratio 26,64							1									
		Elective Course Ratio		26	,04		J									

						Electi	ve Course Poo	l							
Departmental Elective Courses	т	Р	L	С	ECTS	Prerequisite		Social Elective Courses (Foreign Languages)	т	Р	L	С	ECTS	Prerequisi	
SE303 Software Quality Assurance	3	0	0	3	5			ARB123 Arabic I	3	0	0	3	5		
SE305 Algorithms and Optimization Methods (Project Based)	3	0	0	3	5			ARB124 Arabic II	3	0	0	3	5	ARB123	
COME309 Web Programming	3	0	0	3	5			CHN123 Chinese I	3	0	0	3	5		
SE304 Software Engineering Ethics	3	0	0	3	5			CHN124 Chinese II	3	0	0	3	5	CHN123	
SE306 Large Scale Software Development (Project Based)	3	0	0	3	5			ESP123 Spanish I	3	0	0	3	5		
COME304 Visual Programming	3	0	0	3	5			ESP124 Spanish II	3	0	0	3	5	ESP123	
COME308 Mobile Programming	3	0	0	3	5			FRN123 French I	3	0	0	3	5		
SE401 Human-Computer Interaction	3	0	0	3	5			FRN124 French II	3	0	0	3	5	FRN123	
SE403 Computer Games and Simulation	3	0	0	3	5			GER123 German I	3	0	0	3	5		
SE405 Rapid Application Development	3	0	0	3	5			GER124 German II	3	0	0	3	5	GER123	
COME311 Data Security	3	0	0	3	5			RSN123 Russian I	3	0	0	3	5		
SE407 Knowledge Engineering	3	0	0	3	5			RSN124 Russian II	3	0	0	3	5	RSN123	
SE409 System Modeling and Simulation (Project Based)	3	0	0	3	5										
SE402 Formal Methods in Software Engineering	3	0	0	3	5										
SE404 Agile Methods in Software Development	3	0	0	3	5										
SE406 Emerging Technologies (Project Based)	3	0	0	3	5										
SE408 Analysis and Design of User Interfaces	3	0	0	3	5										
COME410 Systems Programming	3	0	0	3	5										
COME416 Compiler Design	3	0	0	3	5										
SE412 Software and Systems Security	3	0	0	3	5										
COME408 Network Security	3	0	0	3	5										
COME305 Analysis of Algorithms	3	0	0	3	5										
COME306 Digital Signal Processing	3	0	0	3	5										
SE413 Data Mining and Applications (Project Based)	3	0	0	3	5										
SE414 Artificial Intelligence and Applications (Project Based)	3	0	0	3	5										
COME407 Image Processing	3	0	0	3	5										
SE307 Programming with Python	3	0	0	3	5										
SE415 Semantic Web Technologies	3	0	0	3	5										
SE308 Metaverse Technologies And Applications (Project Based)	3	0	0	3	5										
SE410 Theoretical and Computational Neuroscience		0	0	3	5			For Field Elective courses, any departmental elective co						m other	
3E410 Theoretical and Computational Neuroscience	3	U	U	- 3	- 3			departments of Faculty of Engineering and I	latural	Science	es can	be elec	ted.		
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	+-		<b>-</b>	<b>-</b>				1							
	+	_	-	-				For Social Elective courses, either foreign language course or course having appropriate credits from							
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	+	_	-	-				faculties can be elected.							
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	+	+	-	-	-			-							
	+	+	-	-	-			-							
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