Üsküdar University
Faculty of Engineering and Natural Sciences
Department of Computer Engineering
2016-2017 Academic Year
(100% English)

YEAR ONE

1st Term

Code	Course Name	T	P	L	C	ECTS	Prerequisite
COME 101	Introduction to Computer Engineering	2	2	0	3	4	
MATH 101	Calculus-I	3	2	0	4	6	
PHYS 101	Physics-I	3	0	2	4	6	
CHEM 101	General Chemistry-I	3	0	2	4	6	
ING 10X	English-I	3	0	0	3	3	
TURK 101	Turkish Language-I	2	0	0	2	3	
RPSC 109	Positive Phychology and Communication Skills	3	0	0	3	5	
RCUL 101	University Culture	0	2	0	1	1	
Total Credits		**19**	**6**	**4**	**24**	**34**	

2nd Term

Code	Course Name	T	P	L	C	ECTS	Prerequisite
COME 102	Introduction to Algorithms and Programming	2	0	2	3	4	
COME 104	Discrete Mathematics	3	0	0	3	4	
MATH 102	Calculus-II	3	2	0	4	6	
PHYS 102	Physics-II	3	0	2	4	6	
ING 10X	English-II	3	0	0	3	3	
TURK 102	Turkish Language-II	2	0	0	2	3	
RCUL 102	University Culture	0	2	0	1	1	
Total Credits		**16**	**4**	**4**	**20**	**27**	

YEAR TWO

3rd Term

Code	Course Name	T	P	L	C	ECTS	Prerequisite
COME 201	Object Oriented Programming-I	2	0	2	3	4	
COME 203	Logic Circuits	3	0	2	4	6	
COME 205	Data Structures	2	0	2	3	5	COME 102
MATH 201	Linear Algebra and Engineering Applications	2	0	2	3	5	
MATH 203	Differential Equations	2	2	0	3	5	
ING 211	Professional English - I	3	0	0	3	3	
ATA 101	Principles of Atatürk and History of Revolutions-I	2	0	0	2	3	
Total Credits		**16**	**2**	**8**	**21**	**31**	

4th Term

Code	Course Name	T	P	L	C	ECTS	Prerequisite
COME 202	Object Oriented Programming-II	2	0	2	3	4	
COME 204	Computer Architecture	3	0	0	3	5	
COME 212	Signals and Systems	2	2	0	3	6	MATH 102
COME 208	Electronic Circuits	3	0	2	4	6	
COME 210	Probability and Statistics	3	0	0	3	5	
COME 282	Summer Practice-I	0	0	0	0	4	
ATA 102	Principles of Atatürk and History of Revolutions-II	2	0	0	2	3	
Total Credits		**15**	**2**	**4**	**18**	**33**	

YEAR THREE

5th Term

Code	Course Name	T	P	L	C	ECTS	Prerequisite
COME 301	Database Management Systems	2	0	2	3	5	
COME 303	Microprocessors	2	0	2	3	5	COME 203
COME 305	Computer Networks	3	0	0	3	4	
COME 307	Operating Systems	2	0	2	3	4	
COME XXX	Departmental Elective - I	3	0	0	3	5	
RPRE 104	Entrepreneurship and Project Culture	2	0	0	2	3	
Total Credits		**14**	**0**	**6**	**17**	**26**	

6th Term

Code	Course Name	T	P	L	C	ECTS	Prerequisite
COME 316	Computer Graphics	3	0	0	3	6	COME 201
COME XXX	Departmental Elective - II	3	0	0	3	5	
COME XXX	Departmental Elective - III	3	0	0	3	5	
MATH 302	Numerical Analysis	3	0	0	3	5	
XXXXXX	Social Elective - I	3	0	0	3	5	
COME 382	Summer Practice-II	0	0	0	0	4	
Total Credits		**15**	**0**	**0**	**15**	**30**	

YEAR FOUR

7th Term

Code	Course Name	T	P	L	C	ECTS	Prerequisite
COME 491	Graduation Project	2	0	0	2	8	
COME 401	Data Mining	3	0	0	3	6	
COME XXX	Departmental Elective - IV	3	0	0	3	5	
XXXXXX	Field Elective - I	3	0	0	3	5	
XXXXXX	Social Elective - II	3	0	0	3	5	
Total Credits		**14**	**0**	**0**	**14**	**29**	

8th Term

Code	Course Name	T	P	L	C	ECTS	Prerequisite
COME 492	Graduation Thesis	0	0	4	2	9	COME 491
COME XXX	Departmental Elective - V	3	0	0	3	5	
COME XXX	Departmental Elective - VI	3	0	0	3	5	
XXXXXX	Field Elective - II	3	0	0	3	5	
XXXXXX	Elective (2nd Foreign Language)	2	0	0	2	3	
ING 212	Professional English - II	3	0	0	3	3	
Total Credits		**14**	**0**	**4**	**16**	**30**	

Total Local Credits	145
ECTS Credits	240
Elective Courses ECTS Credits	53
Elective Course Ratio	22%

COME 282	Hardware based summer practice
COME 382	Software based summer practice

Elective Course - Pool

Departmental Elective Courses		2nd Foreign Language Elective Courses
COME 309 - Web Programming	COME 407 - Image Processing	XXXXXX - Chinese
COME 311 - Data Security	COME 409 - Automata Theory	XXXXXX - Arabic
COME 304 - Visual Programming	COME 402 - Artificial Neural Networks	XXXXXX - Russian
COME 306 - Digital Signal Processing	COME 404 - Fuzzy Controllers	XXXXXX - Spanish
COME 308 - Mobile Programming	COME 406 - Parallel Computing	
COME 310 - Real Time Systems	COME 408 - Network Security	For Field Elective courses, any course having appropriate credits from other departments of Faculty of Engineering and Natural Sciences can be elected.
COME 312 - User Interface Design	COME 410 - Systems Programming	
COME 314 - Introduction to Control Systems	COME 412 - Embedded Systems	
COME 403 - Software Engineering	COME 414 - Optimization Techniques	For Social Elective course, any course having appropriate credits from other faculties can be elected.
COME 405 - Artificial Intelligence	COME 416 - Compiler Design	