

SOFTWARE ENGINEERING PROGRAM CURRICULUM

1st Year

Semester 1						PREQ	Semester 2						PREQ
Course Code	Course Name	L	T	C	ECTS		Course Code	Course Name	L	T	C	ECTS	
ENGL101	Academic English I	3	0	3	6		ENGL102	Academic English II	3	0	3	6	ENGL101
MATH141	Basic Mathematics	3	1	3	6		MATH142	Calculus I	3	1	3	6	MATH141
SOFE101	Computer Technologies I	2	2	3	4		SOFE102	Computer Technologies II	3	1	3	6	SOFE101
SOFE103	Computer Fundamentals and Introduction to Programming	3	2	4	6		SOFE104	Computer Programming	3	2	4	6	SOFE103
SOFE105	Web Design	3	1	3	6		MATH144	Discrete Mathematics	2	2	3	6	
TURK101	Turkish I /	2	0	2	2								
HIST101	History of Turkish Reforms												
TOTAL		17	6	18	30		TOTAL		14	7	16	30	

2nd Year

Semester 3						PREQ	Semester 4						PREQ
Course Code	Course Name	L	T	C	ECTS		Course Code	Course Name	L	T	C	ECTS	
MATH241	Linear Algebra	3	0	3	6	MATH101	MATH242	Probability and Statistics	3	0	3	6	MATH102
SOFE201	Programming Languages C#	3	2	4	6		SOFE202	Software Engineering Analysis and Design	3	0	3	6	SOFE203
SOFE203	Algorithms and Data Structures	3	2	4	6	SOFE104	SOFE204	Object Oriented Programming	2	2	3	6	SOFE104
SOFE205	Operating Systems	3	0	3	6	SOFE104	SOFE206	Computer Networks and Communication	2	2	3	6	
ENGL201	Occupational English I	3	0	3	6	ENGL102	ENGL202	Occupational English II	3	0	3	6	ENGL201
TOTAL		15	4	17	30		TOTAL		13	4	15	30	

3rd Year

Semester 5						PREQ	Semester 6						PREQ
Course Code	Course Name	L	T	C	ECTS		Course Code	Course Name	L	T	C	ECTS	
SOFE301	Software Project Management	3	0	3	6	SOFE204	SOFE302	Human Computer Interaction	2	2	3	6	
SOFE303	Linux Utilities and Shell Scripting	3	1	3	6	SOFE205	SOFE304	Cloud Computing	3	0	3	6	SOFE102
SOFE305	Database Systems	3	2	4	6	SOFE203	SOFE306	Software Architecture	2	2	3	6	
AREAXX1	Faculty Elective	3	0	3	6		AREAXX2	Faculty Elective	3	0	3	6	
UNIEXX1	University Elective	3	0	3	6		UNIEXX2	University Elective	3	0	3	6	
TOTAL		15	3	16	30		TOTAL		1	4	1	30	
									3	4	5		

4th Year

Semester 7						PREQ	Semester 8						PREQ
Course Code	Course Name	L	T	C	ECTS		Course Code	Course Name	L	T	C	ECTS	
SOFE401	Non-Technical Aspects of Engineering	2	0	2	5		SOFE402	Ethics in Engineering	3	0	3	6	
SOFE403	Software Measurement and Testing	3	0	3	6	SOFE301	SOFE404	E-Business: Administration, Security & Marketing	3	0	3	6	
SOFE405	Wireless Communications	2	2	3	5	SOFE206	SOFE406	Automata Theory	3	0	3	6	MATH144
SOFE407	Senior Project I	2	2	3	6		PROG XX2	Program Elective	3	0	3	6	
PROGXX1	Program Elective	3	0	3	6		PROG XX3	Program Elective	3	0	3	6	
SOFE400	Summer Training (4 weeks)	0	0	0	2								
TOTAL		12	4	14	30		TOTAL		1	0	1	30	
									5		5		

Note: L – Lecture Hour (hours/week); T – Lab/Tutorial (hours/week); C – Traditional Credits; PREQ – Prerequisites.