

FACULTY OF ENGINEERING, DEPARTMENT OF COMPUTER ENGINEERING, FIRST and SECOND EDUCATION, 2012-2013 ACADEMIC CURRICULUM
CODE OF PROGRAMME: 0213, (100% English, FIRST EDUCATION) ----- CODE OF PROGRAMME: 0217, (100% English - SECOND EDUCATION)

PREPARATION CLASS											
Prep Class 1st. Semester					Prep Class 2st. Semester						
Code	Course Name	LT	LB	CR	ECTS	Code	Course Name	LT	LB	CR	ECTS
CME000	Prep Class	0	0	0,0	0	CME000	Prep Class	0	0	0,0	0

I. CLASS													
1st. Semester Courses						2nd. Semester Courses							
Code	Course Name	LT	LB	CR	ECTS	Code	Course Name	LT	LB	CR	ECTS		
PHY183	General Physics I	4	0	4,0	4	PHY186	General Physics II	4	0	4,0	4		
CHE183	General Chemistry	3	0	3,0	3	CAL192	Linear Algebra	3	0	3,0	3		
CAL183	Mathematics I	4	0	4,0	4	CAL186	Mathematics II	4	0	4,0	4		
CME111	Programming Languages I	3	2	4,0	8	CME112	Programming Languages II	3	2	4,0	8		
CME113	Introduction to Computer Engineering	3	0	3,0	5	CME114	Probability and Statistics	3	0	3,0	5		
Total					17	2	18,0	30	Total				
HST181	Atatürk's Principles and History of Revolutions I	2	0	2,0	2	HST182	Atatürk's Principles and History of Revolutions II	2	0	2,0	2		
TRK181	Turkish Language I	2	0	2,0	2	TRK182	Turkish Language II	2	0	2,0	2		
FOL181	Foreign Language I	2	0	2,0	2	FOL182	Foreign Language II	2	0	2,0	2		

II. CLASS													
3rd. Semester Courses						4th. Semester Courses							
Code	Course Name	LT	LB	CR	ECTS	Code	Course Name	LT	LB	CR	ECTS		
FOL281	Technical Foreign Language I	2	0	2,0	2	FOL282	Technical Foreign Language II	2	0	2,0	2		
CAL283	Differential Equations	3	0	3,0	4	CME220	Discrete Mathematics	3	0	3,0	4		
CME221	Logic Circuits	3	1	3,5	6	CME222	Algorithms	3	1	3,5	6		
CME223	Circuit Analysis	3	1	3,5	6	CME224	Electronics	3	1	3,5	6		
CME225	Object Oriented Programming	3	1	3,5	6	CME226	Database Management	3	1	3,5	6		
CME227	Data Structures	3	1	3,5	6	CME228	Internet Based Programming	3	1	3,5	6		
Total					17	4	19,0	30	Total				

III. CLASS													
5th. Semester Courses						6th. Semester Courses							
Code	Course Name	LT	LB	CR	ECTS	Code	Course Name	LT	LB	CR	ECTS		
CME399	Industrial Practice I	0	0	0,0	6	FOL382	Foreign Language for Business	2	0	2,0	2		
FOL381	Reading and Speaking at Foreign Language	2	0	2,0	2	CME320	Computer Architecture	3	1	3,5	7		
CME321	Microprocessors	3	1	3,5	6	CME322	Automata Theory	3	1	3,5	7		
CME323	Numerical Analysis	3	1	3,5	4	CME324	Operating Systems	3	1	3,5	6		
CME325	Data Communication Systems	3	1	3,5	4	Technical Elective Course (A)		3	1	3,5	6		
Technical Elective Course (A)		3	1	3,5	6	Social Elective Course (B)		2	0	2,0	2		
Social Elective Course (B)		2	0	2,0	2	Total							
Total					16	4	18,0	30	Total				

Technical Elective Courses (A)					
CME327	Signals and Systems	3	1	3,5	6
CME329	Introduction to Computer Science	3	1	3,5	6
CME331	Content Management Systems	3	1	3,5	6

Social Elective Courses (B)					
ESC301	Labour Law	2	0	2,0	2
ESC303	Patent and Industrial Design	2	0	2,0	2
ESC305	Entrepreneurship	2	0	2,0	2
ESC307	Communication Skills	2	0	2,0	2
ESC309	International Communication	2	0	2,0	2
ESC311	Critical Analytic Thinking Techniques	2	0	2,0	2
ESC313	Project Management	2	0	2,0	2
SOC381	Values Education	2	0	2,0	2

Technical Elective Courses (A)					
CME326	Computer Network	3	1	3,5	6
CME328	Real Time Systems	3	1	3,5	6
CME330	Fundamentals of Distance Education	3	1	3,5	6

Social Elective Courses (B)					
ESC302	Research and Presentation Skills	2	0	2,0	2
ESC304	Human Resources Management	2	0	2,0	2
ESC306	Management Systems	2	0	2,0	2
ESC308	Occupational Health and Safety	2	0	2,0	2
ESC310	Corporate Behavior	2	0	2,0	2
ESC312	Standardization	2	0	2,0	2
ESC314	Art of Communication	2	0	2,0	2

* 1 course will be selected in each semester from A and B group courses

"Industrial Practice" will be done according to the training regulation.

IV. CLASS													
7th. Semester Courses						8th. Semester Courses							
Code	Course Name	LT	LB	CR	ECTS	Code	Course Name	LT	LB	CR	ECTS		
CME499	Industrial Practice II	0	0	0,0	6	ESC462	Ethics	2	0	2,0	2		
ESC461	Introduction to Economy	2	0	2,0	2	CME422	Senior Project II	1	2	2,0	4		
CME421	Senior Project I	1	2	2,0	2	Technical Elective Course (A₁)		3	0	3,0	6		
Technical Elective Course (A₁)		3	0	3,0	5	Technical Elective Course (A₂)		3	0	3,0	6		
Technical Elective Course (A₂)		3	0	3,0	5	Technical Elective Course (A₃)		3	0	3,0	6		
Technical Elective Course (A₃)		3	0	3,0	5	Technical Elective Course (A₄)		3	0	3,0	6		
Technical Elective Course (A₄)		3	0	3,0	5	Total							
Total					15	2	16,0	30	Total				

Technical Elective Courses (A)					
CME423	Computer Graphics	3	0	3,0	5
CME425	Introduction to Data Mining	3	0	3,0	5
CME427	Programming of Mobile Devices	3	0	3,0	5
CME429	Introduction to Image Processing	3	0	3,0	5
CME431	Artificial Intelligence	3	0	3,0	5
CME433	Wireless Networks	3	0	3,0	5
CME435	Web Services	3	0	3,0	5
CME437	Industrial Information Systems	3	0	3,0	5
CME439	Robot Technologies	3	0	3,0	5
CME441	Special Topics in Computer Engineering I	3	0	3,0	5
CME443	Remote Sensing Technologies	3	0	3,0	5
CME445	Control Systems and Applications	3	0	3,0	5
CME447	GPS Based Systems	3	0	3,0	5

Technical Elective Courses (A)					
CME424	Compiler Design	3	0	3,0	6
CME426	Software Engineering	3	0	3,0	6
CME428	Game Programming	3	0	3,0	6
CME430	Artificial Neural Networks	3	0	3,0	6
CME432	Principles of Parallel Programming	3	0	3,0	6
CME434	Geographic Information Systems	3	0	3,0	6
CME436	Introduction to Pattern Recognition	3	0	3,0	6
CME438	System Programming	3	0	3,0	6
CME440	Introduction to Bioinformatics	3	0	3,0	6
CME442	Special Topics in Computer Engineering II	3	0	3,0	6
CME444	Optimization Theory	3	0	3,0	6
CME446	Computer and Network Security	3	0	3,0	6
CME448	Digital Signal Processing	3	0	3,0	6

* 4 courses will be selected in each semester from "A" group courses

"Industrial Practice" will be done according to the training regulation.