

Marmara University Faculty of Technology
Computer Engineering Undergraduate Program

1.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BLM1001	Int. to Computer Engineering	2	0	4	4
2	FZK1071	Physics I	2	2	4	4
3	KMY1020	Chemistry	2	2	4	4
4	MAT1085	Calculus I	3	2	5	5
5	MAT1087	Linear Algebra	3	0	5	5
6	TRD121	Turkish Language I	2	0	2	2
7	YDZx121	Foreign Language I	2	0	2	2
8	BLM1003	Int. to Algorithm & Programming	2	0	4	4
TOTAL			18	6	30	30

2.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BLM1002	Computer Programming I	2	2	6	6
2	BLM1004	Computer Hardware	2	2	6	6
3	FZK1072	Physics II	2	2	4	4
4	MAT1086	Calculus II	3	2	5	5
5	ISG1081	Occupational Health and Safety	2	0	3	3
6	YDZx122	Foreign Language II	2	0	2	2
7	TF2010	Scientific Research & Presentation Tech	2	0	2	2
8	TRD122	Turkish Language II	2	0	2	2
TOTAL			17	8	30	30

3.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BLM2001	Computer Programming II	2	2	7	7
2	BLM2003	Human-Computer Interaction & Visuality	2	0	4	4
3	BLM2007	Logic Circuits	2	2	5	5
4	BLM2005	Object-Oriented Programming	2	2	6	6
5	MAT2019	Discrete Mathematics	2	0	3	3
6	MAT2085	Differential Equations	3	0	5	5
TOTAL			13	6	30	30

4.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BLM2002	Data Structures & Algorithms	2	2	5	5
2	IST3045	Statistics for Engineering	2	0	3	3
3	BLM2006	Int. to Computer Networks	2	2	5	5
4	BLM2008	Microprocessors	2	2	6	6
5	BLM2010	Int. to Electronic Circuits	2	2	6	6
6	MAT2086	Numerical Analysis	3	0	5	5
TOTAL			13	8	30	30

5.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BLM3000	Internship I	0	4	4	4
2	BLM3001	Database Management System	2	2	5	5
3	BLM3003	Operating Systems	2	2	5	5
4	BLMxxx	Technical Elective Course- 3	2	2	4	4
5	BLMxxx	Technical Elective Course- 2	2	2	4	4
6	BLMxxx	Technical Elective Course- 1	2	2	4	4
7	BLM3007	Microcontrollers	2	2	5	5
8	BLM3005	Int. to Signal and Systems	2	0	3	3
TOTAL			14	16	34	34

6.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BLM3004	Computer Organization & Architecture	2	0	5	5
2	BLM3006	Web Programming	2	2	4	4
3	BLMxxx	Technical Elective Course – 4	2	2	4	4
4	BLMxxx	Technical Elective Course – 5	2	2	4	4
5	BLMxxx	Technical Elective Course – 6	2	2	4	4
6	BLM3010	System Programming	2	2	5	5
7	BLM3008	Software Engineering	2	0	4	4
TOTAL			14	10	30	30

7.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BLM4000	Internship II	0	4	4	4
2	BLM4001	Long Term Intership	5	20	28	28
3	ATA121	Atatürk's Principles and History of Turkish Revolution I	2	0	2	2
TOTAL			7	24	34	34

8.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BLM4002	System and Server Management	2	2	5	5
2	BLM4098	Graduation Project	0	2	4	4
3	T F-USD	University Elective Course	3	0	3	3
4	BLMxxx	Technical Elective Course - 7	2	2	4	4
5	BLMxxx	Technical Elective Course – 8	2	2	4	4
6	BLMxxx	Technical Elective Course - 9	2	2	4	4
7	ATA122	Atatürk's Principles and History of Turkish Revolution II	2	0	2	2
8	YDI2025	Technical English	3	0	4	4
TOTAL			16	10	30	30

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D1: 1.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	YDZA121	German I	2	0	2	2
2	YDZF121	French I	2	0	2	2
3	YDZI121	English I	2	0	2	2
TOTAL			6	0	2	6

D2: 2.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	YDZA122	German II	2	0	2	2
2	YDZF122	French II	2	0	2	2
3	YDZI122	English II	2	0	2	2
TOTAL			6	0	6	6

S1,2,3: 5.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BLM3053	Artificial Neural Network	2	2	4	4
2	BLM3055	Education Systems Design	2	2	3	4
3	BLM3057	Computer Graphics	2	2	3	4
4	BLM3059	Formal Languages and Automata	2	2	3	4
5	BLM3061	Computer Network Protocols	2	2	3	4
6	BLM3051	Algorithm Analysis	2	2	2	4
TOTAL			12	12	18	24

S4,5,6: 6.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BLM3052	Data Mining	2	2	4	4
2	BLM3054	Embedded Systems	2	2	4	4
3	BLM3058	Simulation and Modeling	2	2	4	4
4	BLM3062	Open Source Software	2	2	4	4
5	BLM3060	Computer Security	2	2	4	4
6	BLM3066	Digital Signal Processing	2	2	4	4
7	BLM3056	Int. to E-Commerce	2	2	4	4
TOTAL			12	12	28	28

S7,8 8.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BLM4052	Game Software Development	2	2	4	4
2	BLM4054	Management of Software Projects	2	2	4	4
3	BLM4056	Mobile Programming	2	2	4	4
4	BLM4058	Distributed Systems	2	2	4	4
5	BLM4060	Web Services	2	2	4	4
6	BLM4062	Cryptology	2	2	4	4
7	BLM4088	Int. to Artificial Intelligence	2	2	4	4
8	BLM4064	Fundamentals of Image Processing	2	2	4	4
9	BLM4080	Wireless Networks	2	2	4	4
TOTAL			18	18	36	36

S7,8 8.SEMESTER						
No	Code	Course Name	T	U	K	ECTS
1	BSB4041	Entrepreneurship and Innovation	3	0	3	3
2	BSB4049	Business Psychology	3	0	3	3
3	BSB4043	Environment and Energy	3	0	3	3
4	BSB4058	Quality Management	3	0	3	3
5	BSB4045	Report Preparation and Presentation Techniques	3	0	3	3
6	BSB4046	Social Organization	3	0	3	3
7	BSB4048	Ottoman History	3	0	3	3
8	KSS4043	Technical Communication	3	0	3	3
9	ISL4041	History of Science	3	0	3	3
10	KSS4052	Feasibility Preparation and Applications	3	0	3	3
11	PAZ4044	Technical Sales and Marketing	3	0	3	3
12	BSB4051	Entrepreneurship	3	0	3	3
TOTAL			36	0	36	36