

ALANYA ALAADDİN KEYKUBAT UNIVERSITY
DEPARTMENT OF COMPUTER ENGINEERING 2018 PROGRAM

Code	Course Name	Credit	Theoretical(w)	Appl	Lab	ECTS	Type	C/E	Semester	Language
MAT 101E	Mathematics I	4.0	3	2	0	5	TB	C	1	E
FIZ 101E	Physics I	3.0	3	0	0	4	TB	C	1	E
FIZ 101EL	Physics I Lab	1.0	0	0	2	1	TB	C	1	E
TDB 101	Türk Dili I	2.0	2	0	0	2	ITB	C	1	T
ATA 101	Atatürk İlkeleri ve İnkılap Tarihi I	2.0	2	0	0	2	ITB	C	1	T
YDE 170E	Academic Language Skills	3.0	3	0	0	4	ITB	C	1	E
MAT 108E	Linear Algebra	3.0	3	0	0	4	TB	C	1	E
BLG 101E	Computer Sciences	4.0	3	0	2	5	TM	C	1	E
BLG 109E	Introduction to Computer Engineering	1.0	1	0	0	2	TM	C	1	E
Semester I:		23.0	20	2	4	29				

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
MAT 102E	Mathematics II	4.0	3	2	0	5	TB	C	2	E
FIZ 102E	Physics II	3.0	3	0	0	4	TB	C	2	E
FIZ 102EL	Physics II Lab	1.0	0	0	2	2	TB	C	2	E
TDB 102	Türk Dili II	2.0	2	0	0	2	ITB	C	2	T
ATA 102	Atatürk İlkeleri ve İnkılap Tarihi II	2.0	2	0	0	2	ITB	C	2	T
BLG 205E	Discrete Mathematics	3.0	3	0	0	4	TB	C	2	E
BLG 102E	Introduction to Programming	4.0	3	0	2	6	TM	C	2	E
SGS XXXE	Sports and Fine Arts I	2.0	2	0	0	2	ITB	E	7	E
YDE XXXE	2nd Semester Elective English Course (ITB)	3.0	3	0	0	4	ITB	E	2	E
Semester 2:		19.0	16	2	4	31				

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
BLG 201E	Data Structures and Algorithms	3.5	3	0	1	6	TM	C	3	E
BLG 220E	Electronics for Computer Engineers	3.0	3	0	0	5	TM	C	3	E
BLG 223E	Digital Logic Design	3.0	3	0	0	5	TM	C	3	E
BLG 223EL	Digital Logic Design Laboratory	1.0	0	0	2	2	TM	C	3	E
BLG 211E	Object Oriented Programming	3.0	3	0	0	5	TM	C	3	E
MAT 203E	Probability and Statistics	3.0	3	0	0	4	TB	C	3	E
MAT 201E	Numerical Methods	3.0	3	0	0	4	TB	C	3	E
Semester 3:		19.5	18	0	3	31				

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
BLG 212E	Programming Languages	3.0	3	0	0	5	MT	C	4	E
BLG 224E	Digital Logic Systems	3.0	3	0	0	5	TM	C	4	E
BLG 224EL	Digital Logic Systems Laboratory	1.0	0	0	2	2	TM	C	4	E
BLG 252E	Data Management and File Structures	3.0	3	0	0	5	MT	C	4	E
MAT 202E	Differential Equations	4.0	4	0	0	5	TB	C	4	E
ETK 101E	Engineering Ethics	1.0	1	0	0	2	TM	C	4	E
	4th Semester Elective Course I (MT)	3.0	3	0	0	5	MT	E	4	E
Semester 4:		18.0	46	0	7	29				

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
BLG 300E	Computer Engineering Practice (Traineeship) I	0.0	0	0	0	0	MT	C	5	E
BLG 325E	Computer Architecture	3.0	3	0	0	6	MT	C	5	E
BLG 355E	Software Engineering	3.0	3	0	0	5	MT	C	5	E
BLG 341E	Operating Systems	3.0	3	0	0	5	TM	C	5	E
BLG 341EL	Operating Systems Laboratory	0.5	0	0	1	1	TM	C	5	E
BLG 301E	Algorithms and Analysis of Algorithms	3.0	3	0	0	5	TM	C	5	E
	5th Semester Elective Course II (MT)	3.0	3	0	0	5	MT	E	5	E
	5th Semester Elective Course III (ITB)	3.0	3	0	0	4	ITB	E	5	E
Semester 5:		15.5	15	0	1	31				

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
BLG 361E	Automata Theory and Formal Languages	3.0	3	0	0	6	TB	C	6	E
BLG 332E	Microprocessors	3.0	3	0	0	5	MT	C	6	E
BLG 332EL	Microprocessors Laboratory	1.0	0	0	2	2	MT	C	6	E
BLG 344E	Computer Networks	3.0	3	0	0	6	MT	C	6	E
BLG 352E	Database Management Systems	3.0	3	0	0	6	MT	C	6	E
	6th Semester Elective Course I (ITB)	3.0	3	0	0	4	ITB	E	6	E
Semester 6:		16.0	15	0	2	29				

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
BLG 400E	Computer Engineering Practice (Traineeship) II	0.0	0	0	0	0	MT	C	7	E
BLG 491E	Computer Engineering Seminar	2.0	0	4	0	6	MT	C	7	E
BLG 481E	IT Law	2.0	2	0	0	3	ITB	C	7	E
END 401E	Occupational Health and Safety I	2.0	2	0	0	2	TB	C	1	E
	7th Semester Elective Course I (MT)	3.0	3	0	0	5	MT	E	7	E
	7th Semester Elective Course II (MT)	3.0	3	0	0	5	MT	E	7	E
	7th Semester Elective Course III (MT)	3.0	3	0	0	5	MT	E	7	E
	7th Semester Elective Course IV (ITB)	3.0	3	0	0	4	ITB	E	7	E
Semester 7:		18.0	16	10	0	30				

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
BLG 492E	Graduation Design Project	3.0	0	6	0	8	MT	C	8	E
END 402E	Occupational Health and Safety II	1.0	1	0	0	1	TB	C	2	E
SGS XXXE	Sports and Fine Arts II	2.0	2	0	0	2	ITB	E	8	E
	8th Semester Elective Course I (MT)	3.0	3	0	0	5	MT	E	8	E
	8th Semester Elective Course II (MT)	3.0	3	0	0	5	MT	E	8	E
	8th Semester Elective Course III (MT)	3.0	3	0	0	5	MT	E	8	E
	8th Semester Elective Course IV (ITB)	3.0	3	0	0	4	ITB	E	8	E
Semester 8:		18.0	15	6	0	30				
TOPLAM:		147.0	161	20	21	240				

Temel Bilim (TB)	38.0	24.5	25 min
Temel Mühendislik (TM)	34.0	21.9	20 min
Mühendislik Tasarım (MT)	51.0	32.9	25-35
İnsan & Toplum Bilim (ITB)	32.0	20.6	20 min
Toplam Kredi	155.0	100.0	
Zorunlu Ders Kredisi	0.0	0.0	
Seçmeli Ders Kredisi	0.0	0.0	
Toplam Kredi	155.0	0.0	

Bologna Kriterleri			
Toplam ECTS	240	100.0	
Seçmeli	0	0.0	25 min

Servis Dersleri		Credit	Theo	Appl	Lab	ECTS	Type
BIL 101E	Introduction to Computers and Information Systems	1.5	1	0	1	2	TB
BIL 102E	Introduction to Scientific Programming	3.0	2	0	2	4	TM
BIL 106E	Introduction to C Programming	3.0	2	0	2	5	TM
BIL 202E	Programming Languages and Techniques	3.0	2	0	2	5	TM
BIL 205E	Database Management Systems	3.0	2	2	0	4	TM
BIL 401E	Technology and Ethics	3.0	3	0	0	4	ITB

1st Semester ITB Elective Courses

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type
SGS 101E	History of Art	2	2	0	0	2	ITB
SGS 103E	History and Philosophy of Science	2	2	0	0	2	ITB
SGS 105E	Disaster Awareness	2	2	0	0	2	ITB
SGS 107E	Eloquent Speech	2	2	0	0	2	ITB
SGS 109E	Basic First Aid and Emergency	2	2	0	0	2	ITB
SGS 111E	Archery	2	2	0	0	2	ITB
SGS 113E	Boxing, Karate and Taekwondo	2	2	0	0	2	ITB
SGS 115E	Football	2	2	0	0	2	ITB
SGS 117E	Volleyball	2	2	0	0	2	ITB
SGS 119E	Basketball	2	2	0	0	2	ITB
SGS 121E	Tennis	2	2	0	0	2	ITB
SGS 123E	Table Tennis	2	2	0	0	2	ITB
SGS 125E	Folk Dances	2	2	0	0	2	ITB
SGS 127E	Music Culture	2	2	0	0	2	ITB
SGS 129E	Arts&Painting	2	2	0	0	2	ITB
SGS 131E	Theatre and Cinema	2	2	0	0	2	ITB
SGS 133E	Healthy Living	2	2	0	0	2	ITB
SGS 135E	Nutrition	2	2	0	0	2	ITB
SGS 137E	Media Literacy	2	2	0	0	2	ITB
SGS 139E	Mathematical Esthetics	2	2	0	0	2	ITB
SGS 141E	Industrial Design	2	2	0	0	2	ITB
SGS 143E	Basic Photography	2	2	0	0	2	ITB
SGS 145E	Surfing	2	2	0	0	2	ITB

2nd Semester ITB Elective Courses

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type
SGS 101E	History of Art	2	2	0	0	2	ITB
SGS 103E	History and Philosophy of Science	2	2	0	0	2	ITB
SGS 105E	Disaster Awareness	2	2	0	0	2	ITB
SGS 107E	Eloquent Speech	2	2	0	0	2	ITB
SGS 109E	Basic First Aid and Emergency	2	2	0	0	2	ITB
SGS 111E	Archery	2	2	0	0	2	ITB
SGS 113E	Boxing, Karate and Taekwondo	2	2	0	0	2	ITB
SGS 115E	Football	2	2	0	0	2	ITB
SGS 117E	Volleyball	2	2	0	0	2	ITB
SGS 119E	Basketball	2	2	0	0	2	ITB
SGS 121E	Tennis	2	2	0	0	2	ITB
SGS 123E	Table Tennis	2	2	0	0	2	ITB
SGS 125E	Folk Dances	2	2	0	0	2	ITB
SGS 127E	Music Culture	2	2	0	0	2	ITB
SGS 129E	Arts&Painting	2	2	0	0	2	ITB
SGS 131E	Theatre and Cinema	2	2	0	0	2	ITB
SGS 133E	Healthy Living	2	2	0	0	2	ITB
SGS 135E	Nutrition	2	2	0	0	2	ITB
SGS 137E	Media Literacy	2	2	0	0	2	ITB
SGS 139E	Mathematical Esthetics	2	2	0	0	2	ITB
SGS 141E	Industrial Design	2	2	0	0	2	ITB
SGS 143E	Basic Photography	2	2	0	0	2	ITB
SGS 145E	Surfing	2	2	0	0	2	ITB

Nontechnical Electives (ITB)

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
END 106E	Economics	3.0	3	0	0	5	ITB	E		T
END 425E	Entrepreneurship	3.0	3	0	0	4	ITB	E		T
END 412E	Innovation Management	3.0	3	0	0	5	ITB	E		T
BIL 401E	Technology and Ethics	3.0	3	0	0	4	ITB	E		T
IKY 415E	Social Psychology	3.0	3	0	0	5	ITB	E		T
ISM 406E	Organizational Behaviour	3.0	3	0	0	4	ITB	E		T
ISM 402E	Labour Law	3.0	3	0	0	4	ITB	E		T

4th Semester Technical Electives

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
BLG 262E	Human-Computer Interaction and Usability	3.0	3	0	0	5	MT	E	4	T/E
BLG 415E	Web-based Programming	3.0	3	0	0	5	MT	E	4	T
BLG 417E	Mobile Application Development	3.0	3	0	0	5	MT	E	5	T

4th Semester Elective English Courses

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
YDE 229E	Effective Communication Skills	3.0	3	0	0	4	TB	E	4	E
YDE 113E	Pronunciation Skills	3.0	3	0	0	4	TB	E	5	E
YDE 123E	Listening and Speaking	3.0	3	0	0	4	TB	E	6	E
YDE 227E	Language Acquisition	3.0	3	0	0	4	TB	E	7	E

5th Semester Technical Electives

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
ISM 303E	Operations Research	3.0	3	0	0	5	MT	E	5	T
BLG 419E	Modern Approaches to Software Development	3.0	3	0	0	5	MT	E	5	T
BLG 465E	Social Network and Social Network Analysis	3.0	3	0	0	5	MT	E	7	E

7th Semester Elective Courses

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
BLG 431E	Basic Methods and Principles in Image Processing	3.0	3	0	0	5	MT	E	7	E
BLG 437E	Artificial Intelligence	3.0	3	0	0	5	MT	E	7	E
BLG 453E	Advanced Database Management Systems	3.0	3	0	0	5	MT	E	7	E
BLG 461E	Introduction to E-Commerce	3.0	3	0	0	5	MT	E	7	E
BLG 471E	Introduction to Parallel Programming	3.0	3	0	0	5	MT	E	7	E
BLG 435E	Introduction to Data Mining	3.0	3	0	0	5	MT	E	7	E
BLG 407E	Computer Graphics	3.0	3	0	0	5	MT	E	7	E
BLG 443E	Systems Programming	3.0	3	0	0	5	MT	E	7	E
BLG 463E	Network Security Programming and Cryptography	3.0	3	0	0	5	MT	E	7	T

8th Semester Elective Courses

Code	Course Name	Credit	Theo	Appl	Lab	ECTS	Type	C/E	Sem	Language
BLG 432E	Fundamentals of Computer Vision	3.0	3	0	0	5	MT	E	8	E
BLG 418E	Game Technologies	3.0	3	0	0	5	MT	E	8	E
BLG 436E	Pattern Recognition	3.0	3	0	0	5	MT	E	8	E
BLG 438E	Bioinformatics	3.0	3	0	0	5	MT	E	8	E
BLG 434E	Fundamentals of Machine Learning	3.0	3	0	0	5	MT	E	8	E
BLG 444E	Spatial Information Systems	3.0	3	0	0	5	MT	E	8	E
BLG 482E	Computing for Medicine	3.0	3	0	0	5	MT	E	8	E
BLG 484E	Semantic Web	3.0	3	0	0	5	MT	E	8	E
BLG 464E	Information Security	3.0	3	0	0	5	MT	E	8	E