

2019-2020 EĞİTİM-ÖĞRETİM YILI ÇİFT ANADAL PROGRAMI MUAF OLUNAN DERSLER

1.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 111 (Muaf)	Algorithms and Programming I	3	0	4
CEN 113 (Muaf)	Algorithms and Programming Lab I	0	2	2
CEN 117	Introduction to Computer Engineering	3	0	6
CEN 119 (Muaf)	Linear Algebra	3	0	5
CEN 107 (Muaf)	Mathematics I	4	0	5
CEN 123 (Muaf)	General Physics I	3	0	5
CEN 115 (Muaf)	Academic Oral Presentation	3	0	3

2.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 116	Algorithms and Programming II	3	0	4
CEN 118	Algorithms and Programming Lab. II	0	2	2
CEN 124 (Muaf)	Circuit Theory	3	0	4
CEN 126 (Muaf)	Circuit Lab.	0	1	2
CEN 106 (Muaf)	Mathematics II	4	0	5
CEN 128 (Muaf)	General Physics II	3	0	5
CEN 130	Discrete Mathematics	3	0	5
CEN 114(Muaf)	Technical Writing	3	0	3

3.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 201	Object Oriented Programming	3	0	5
CEN 213	Data Structures	3	0	5
CEN 215	Data Structures Lab	0	2	2
CEN 217(Muaf)	Electronics	3	0	5
CEN 219(Muaf)	Electronics Lab	0	1	1
CEN 263(Muaf)	Digital Design	3	0	4
CEN 265(Muaf)	Digital Design Lab	0	2	2
CEN 209 (Muaf)	Differential Equations	3	0	4
UTD 201(Muaf)	Turkish I	2	0	2

4.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 202	Programming Languages	3	0	6
CEN 204(Muaf)	Numerical Analysis	3	0	6
CEN 212	Microprocessors	3	0	3
CEN 214	Microprocessors Lab.	0	2	2
CEN 216	Object Oriented Programming Lab.	0	2	2
CEN 218(Muaf)	Signals and Systems	3	0	3
CEN 210(Muaf)	Probability and Statistics	3	0	6
UTD 202(Muaf)	Turkish II	2	0	2

5.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 301	Data Management and File Structures	3	0	6
CEN 343	Theory of Computation	3	0	5
CEN 345	Algorithms	3	0	5
CEN 347	Computer Organization	3	0	4
CEN 349	Computer Organization Lab	0	2	2
CEN 351(Muaf)	Linear Systems	3	0	3
(Muaf)	Social Elective Course	2	0	3
UAI 301(Muaf)	Principles of Atatürk and History of Turkish Revolution I	2	0	2

6.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 344	Computer Networks	3	0	3
CEN 346	Computer Networks Lab.	0	2	2
CEN 348	Artificial Intelligence Systems	3	0	5
CEN 350	Database Management Systems	3	0	5
CEN 352	Software Engineering	3	0	5
CEN 354	Operating Systems	3	0	5
UAI 302 (Muaf)	Principles of Atatürk and History of Turkish Revolution II	2	0	2
(Muaf)	Social Elective Course	2	0	3

7.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 473	Graduation Thesis *	0	4	6
CEN 435 (Muaf)	Occupational Health and Safety I	2	0	3
(Muaf)	Social Elective Course	2	0	3

Seçmeli Ders Havuzu

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 475	Computer Graphics	3	0	6
CEN 403	Digital Image Processing	3	0	6
CEN 405	Introduction to Robotics	3	0	6
CEN 477	Microcontrollers	3	0	6
CEN 479	Introduction to Systems Programming	3	0	6
CEN 489	Modelling of Computer Networks	3	0	6
CEN 419	Introduction to Java Programming	3	0	6
CEN 421	System Analysis and Design	3	0	6
CEN 425	History of Computing	3	0	6
CEN 463	Parallel Programming	3	0	6
CEN 469	Introduction to Linux	3	0	6
CEN 471	Natural Language Processing	3	0	6
CEN 481	Introduction to Data Mining	3	0	6
CEN 483	Web Programming	3	0	6
CEN 485	Computer and Information Ethics	3	0	6
CEN 487	Internet Programming	3	0	6
CEN 423	Matlab Programming	3	0	6
CEN 403	Digital Image Processing	3	0	6
CEN 405	Introduction to Robotics	3	0	6

CEN 421	System Analysis and Design	3	0	6
CEN 463	Parallel Programming	3	0	6
CEN 471	Natural Language Processing	3	0	6

8.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 416	Graduation Thesis*	0	4	6
CEN 436 (Muaf)	Occupational Health and Safety II	2	0	3
(Muaf)	Social Elective Course	2	0	3

Seçmeli Ders Havuzu

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 402	Artificial Neural Networks	3	0	6
CEN 440	E-Commerce	3	0	6
CEN 408	Compilers	3	0	6
CEN 410	Computational Biology and Advanced Topics	3	0	6
CEN 412	Wireless Networks and Security	3	0	6
CEN 414	Java Programming	3	0	6
CEN 418	Introduction to Optimal Control	3	0	6
CEN 442	Signal Processing for Computer Engineers	3	0	6
CEN 444	Developing Applications for Mobile Systems	3	0	6
CEN 424	Network Architecture and Server Planning	3	0	6
CEN426	Introduction to Machine Learning	3	0	6
CEN 428	Systems Programming	3	0	6
CEN 446	Human Computer Interaction	3	0	6
CEN 448	Introduction to Logic Programming	3	0	6
CEN 450	Principles of Embedded System Design	3	0	6
CEN 454	Information Systems Security	3	0	6
CEN 452	Introduction to Cryptography	3	0	6
CEN 456	Introduction to Internet of Things	3	0	6

***Mezun olabilmek için CEN 473 GraduationThesis ya da CEN 416 GraduationThesis (0+4) derslerinden birini almış olmak ve başarıyla geçmiş olmak zorunludur.**

**** 7. yarıyıl seçmeli ders havuzundan 4 adet, 8. Yarıyıl seçmeli ders havuzundan 3 adet ders alınması gerekmektedir. Seçmeli ders havuzu yıllara göre değişiklik gösterebilir.**

Alınması Gereken Toplam AKTS: 137

Muaf Olunan AKTS Toplamı: 103

Alınması Gereken Dersler ve yarıyıl bilgileri aşağıdaki gibidir.

1.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 117	Introduction to Computer Engineering	3	0	6

2.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 116	Algorithms and Programming II	3	0	4
CEN 118	Algorithms and Programming Lab. II	0	2	2
CEN 130	Discrete Mathematics	3	0	5

3.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 201	Object Oriented Programming	3	0	5
CEN 213	Data Structures	3	0	5
CEN 215	Data Structures Lab	0	2	2

4.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 202	Programming Languages	3	0	6
CEN 212	Microprocessors	3	0	3
CEN 214	Microprocessors Lab.	0	2	2
CEN 216	Object Oriented Programming Lab.	0	2	2

5.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 301	Data Management and File Structures	3	0	6
CEN 343	Theory of Computation	3	0	5
CEN 345	Algorithms	3	0	5
CEN 347	Computer Organization	3	0	4
CEN 349	Computer Organization Lab	0	2	2

6.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 344	Computer Networks	3	0	3
CEN 346	Computer Networks Lab.	0	2	2
CEN 348	Artificial Intelligence Systems	3	0	5
CEN 350	Database Management Systems	3	0	5
CEN 352	Software Engineering	3	0	5
CEN 354	Operating Systems	3	0	5

7.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 473	Graduation Thesis *	0	4	6

Seçmeli Ders Havuzu

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 475	Computer Graphics	3	0	6
CEN 403	Digital Image Processing	3	0	6
CEN 405	Introduction to Robotics	3	0	6
CEN 477	Microcontrollers	3	0	6
CEN 479	Introduction to Systems Programming	3	0	6
CEN 489	Modelling of Computer Networks	3	0	6
CEN 419	Introduction to Java Programming	3	0	6
CEN 421	System Analysis and Design	3	0	6
CEN 425	History of Computing	3	0	6
CEN 463	Parallel Programming	3	0	6
CEN 469	Introduction to Linux	3	0	6
CEN 471	Natural Language Processing	3	0	6
CEN 481	Introduction to Data Mining	3	0	6
CEN 483	Web Programming	3	0	6
CEN 485	Computer and Information Ethics	3	0	6
CEN 487	Internet Programming	3	0	6
CEN 423	Matlab Programming	3	0	6
CEN 403	Digital Image Processing	3	0	6
CEN 405	Introduction to Robotics	3	0	6
CEN 421	System Analysis and Design	3	0	6
CEN 463	Parallel Programming	3	0	6
CEN 471	Natural Language Processing	3	0	6

8.YARIYIL

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 416	Graduation Thesis*	0	4	6

Seçmeli Ders Havuzu

Kod	Dersin Adı	Teorik	Uygulama	AKTS
CEN 402	Artificial Neural Networks	3	0	6
CEN 440	E-Commerce	3	0	6
CEN 408	Compilers	3	0	6
CEN 410	Computational Biology and Advanced Topics	3	0	6
CEN 412	Wireless Networks and Security	3	0	6
CEN 414	Java Programming	3	0	6
CEN 418	Introduction to Optimal Control	3	0	6
CEN 442	Signal Processing for Computer Engineers	3	0	6
CEN 444	Developing Applications for Mobile Systems	3	0	6
CEN 424	Network Architecture and Server Planning	3	0	6
CEN426	Introduction to Machine Learning	3	0	6

CEN 428	Systems Programming	3	0	6
CEN 446	Human Computer Interaction	3	0	6
CEN 448	Introduction to Logic Programming	3	0	6
CEN 450	Principles of Embedded System Design	3	0	6
CEN 454	Information Systems Security	3	0	6
CEN 452	Introduction to Cryptography	3	0	6
CEN 456	Introduction to Internet of Things	3	0	6

***Mezun olabilmek için CEN 473 GraduationThesis ya da CEN 416 GraduationThesis (0+4) derslerinden birini almış olmak ve başarıyla geçmiş olmak zorunludur.**

**** 7. yarıyıl seçmeli ders havuzundan 4 adet, 8. Yarıyıl seçmeli ders havuzundan 3 adet ders alınması gerekmektedir. Seçmeli ders havuzu yıllara göre değişiklik gösterebilir.**

Alınması Gereken Toplam AKTS: 137