Doğuş Üniversitesi
MÜHENDİSLİK FAKÜLTESİ
KONTROL VE OTOMASYON MÜHENDİSLİĞİ (İNGİLİZCE)
KONTROL VE OTOMASYON MÜHENDİSLİĞİ (İNGİLİZCE)

Ders Kodu	Ders Adı	T+U+L	Zorunlu/Seçmeli	AKTS
1.Yarıyıl Ders Planı				
ASO 101	Academic and Social Orientation	1+0+0	Zorunlu	1
COME 107	Algorithms and Programming I	3+0+2	Zorunlu	5
CONT 101	Introduction to Control Engineering	2+0+0	Zorunlu	2
MATH 111	Calculus I	2+2+0	Zorunlu	6
PHYS 101	Physics I	2+0+2	Zorunlu	6
S36015	Internship	0+0+0	Zorunlu	5
Uni.El.1	University Elective (1 Piece)	-	Seçmeli	1
			Toplam AKTS	**26**
	Gruplu Dersler			
ALM 101	Almanca I	2+2+0	Seçmeli	5
BA 102	Introduction to Business Administration	3+0+0	Seçmeli	5
BA 202	Research Methods for Social Sciences	2+1+0	Seçmeli	6
CHN 101	Chinese I	2+2+0	Seçmeli	5
CHN 102	Chinese II	2+2+0	Seçmeli	5
ECON 101	Introduction to Economics	3+0+0	Seçmeli	5
ELIT 222	Utopia	2+0+0	Seçmeli	4
GER 102	German II	2+2+0	Seçmeli	5
HUM 302	Sources of Contemporary Europe and Modern Ethics	2+2+0	Seçmeli	5
PHYS 224	Modern Physics I	3+0+0	Seçmeli	6
POLS 101	Introduction to Social Sciences	2+0+0	Seçmeli	6
SOC 242	Making of the Modern World	2+0+0	Seçmeli	6
2.Yarıyıl Ders Planı				
CEE 102	Logic Circuits	2+0+2	Zorunlu	6
ENG 201	Critical Reading and Writing in English	4+0+0	Zorunlu	4
MATH 112	Calculus II	2+2+0	Zorunlu	6
MATH 213	Linear Algebra	3+0+0	Zorunlu	5
PHYS 102	Physics II	2+0+2	Zorunlu	6
S36023	Internship	0+0+0	Zorunlu	3
TAR 203	Principles of Atatürk and Formation of Modern Turkey	4+0+0	Zorunlu	4
			Toplam AKTS	**34**
3.Yarıyıl Ders Planı				
CEE 201	Electrical Circuits	3+0+2	Zorunlu	5
CEE 231	Digital Design	2+0+2	Zorunlu	5
MATH 214	Differential Equations	2+2+0	Zorunlu	6
ME 241	Statics	2+2+0	Zorunlu	5
TÜRK 101	Critical Reading and Writing in Turkish	4+0+0	Zorunlu	4
TÜRK 103	Critical Reading and Writing in Turkish	4+0+0	Zorunlu	4
Uni.El.3	University Elective (1 Piece)	-	Seçmeli	1
			Toplam AKTS	**30**
	Gruplu Dersler			
ALM 101	Almanca I	2+2+0	Seçmeli	5
BA 102	Introduction to Business Administration	3+0+0	Seçmeli	5
BA 202	Research Methods for Social Sciences	2+1+0	Seçmeli	6
CHN 101	Chinese I	2+2+0	Seçmeli	5
CHN 102	Chinese II	2+2+0	Seçmeli	5
ECON 101	Introduction to Economics	3+0+0	Seçmeli	5
ELIT 222	Utopia	2+0+0	Seçmeli	4
GER 102	German II	2+2+0	Seçmeli	5
HUM 302	Sources of Contemporary Europe and Modern Ethics	2+2+0	Seçmeli	5
PHYS 224	Modern Physics I	3+0+0	Seçmeli	6
POLS 101	Introduction to Social Sciences	2+0+0	Seçmeli	6
SOC 242	Making of the Modern World	2+0+0	Seçmeli	6
4.Yarıyıl Ders Planı				
Ders Kodu	Ders Adı	T+U+L	Zorunlu/Seçmeli	AKTS

Ders Kodu	Ders Adı	T+U+L	Zorunlu/Seçmeli	AKTS
CEE 222	Electronic Circuits I	3+0+2	Zorunlu	5
CEE 232	Discrete Time Signals and Systems	3+0+0	Zorunlu	5
CONT 212	Electrical Measurements and Sensors	2+0+2	Zorunlu	5
ME 242	Dynamics	2+2+0	Zorunlu	5
STAT 208	Basic Engineering Probability and Statistics	2+2+0	Zorunlu	6
			Toplam AKTS	**26**

5.Yarıyıl Ders Planı

Ders Kodu	Ders Adı	T+U+L	Zorunlu/Seçmeli	AKTS
CONT 311	Power Electronic Circuits	3+0+0	Zorunlu	5
CONT 313	Feedback Control Systems	4+0+0	Zorunlu	5
CONT 317	Modelling and Simulation in Control Engineering	3+0+0	Zorunlu	5
S36054	Internship	0+0+0	Zorunlu	4
Dep.El.5	Departmental Elective (1 Piece)	-	Seçmeli	1
Fac.El.5	Faculty Elective (1 Piece)	-	Seçmeli	1
			Toplam AKTS	**21**

Gruplu Dersler

Ders Kodu	Ders Adı	T+U+L	Zorunlu/Seçmeli	AKTS
COME 108	Algorithms and Programming II	2+0+2	Seçmeli	6
COME 211	Discrete Computational Structures	3+0+0	Seçmeli	5
COME 214	Programming Language Concepts	2+0+2	Seçmeli	5
COME 218	Data Structures and Algorithms	2+0+2	Seçmeli	6
COME 226	Computer Organization and Architecture	2+0+2	Seçmeli	5
COME 342	Introduction to Software Engineering	2+0+2	Seçmeli	6
CONT 221	Actuators&Controllers	2+2+0	Seçmeli	6
CONT 315	Motion Control Systems	3+0+0	Seçmeli	6
CONT 321	Sensing and Transducing Systems in Control	3+0+0	Seçmeli	6
CONT 322	Process Control	3+0+0	Seçmeli	6
CONT 323	Fundamentals of Adaptive Control Theory	3+0+0	Seçmeli	6
CONT 324	Data Communication and Networks	3+0+0	Seçmeli	6
CONT 325	Statistical Data Analysis	3+0+0	Seçmeli	6
CONT 326	Communication Command and Control Systems	3+0+0	Seçmeli	6
CONT 327	Electrical Machines	3+0+0	Seçmeli	6
CONT 328	Distributed Real-Time Systems	0+0+0	Seçmeli	6
CONT 413	Intelligent Control Systems	3+0+0	Seçmeli	6
CONT 421	Introduction to Optimal Control	3+0+0	Seçmeli	6
CONT 422	Building Automation	3+0+0	Seçmeli	6
CONT 423	Microcontroller-based Control Systems	3+0+0	Seçmeli	6
CONT 424	Electrical Transportation Systems	0+0+0	Seçmeli	6
CONT 425	Optimization in Control Engineering	0+0+0	Seçmeli	6
CONT 426	Embedded Control Systems	3+0+0	Seçmeli	6
CONT 427	Non-linear Systems and Chaos	0+0+0	Seçmeli	6
CONT 428	Robot Technology	3+0+0	Seçmeli	6
CONT 431	Introduction to Nonlinear Control	3+0+0	Seçmeli	6
IE 303	Game Theory for Engineers	3+0+0	Seçmeli	6
IE 304	Applications in Data Analysis	3+0+0	Seçmeli	6
IE 321	Machine Elements	3+0+0	Seçmeli	6
IE 362	Engineering Economy	3+0+0	Seçmeli	4
IE 405	Stochastic Models	3+0+0	Seçmeli	6
IE 434	Entrepreneurship and Innovation	2+2+0	Seçmeli	6
IE 476	Environmental Studies	3+0+0	Seçmeli	6
ME 103	Computer Aided Engineering Graphics	2+0+2	Seçmeli	5
ME 212	Materials Science	3+0+1	Seçmeli	5
ME 264	Thermodynamics I	3+1+0	Seçmeli	5
ME 322	Machine Elements I	3+1+0	Seçmeli	5
ME 352	Heat Transfer	3+1+0	Seçmeli	5

6.Yarıyıl Ders Planı

Ders Kodu	Ders Adı	T+U+L	Zorunlu/Seçmeli	AKTS
CEE 234	Microprocessor Systems	2+0+2	Zorunlu	5
CEE 306	Introduction to Electrical Energy Systems	3+0+0	Zorunlu	4
CONT 302	Control Systems Design	4+0+0	Zorunlu	5
CONT 312	Computer Controlled Systems	3+0+0	Zorunlu	5
Dep.El.6	Departmental Elective (1 Piece)	-	Seçmeli	1
Uni.El.6	University Elective (1 Piece)	-	Seçmeli	1
			Toplam AKTS	**21**

Gruplu Dersler

Ders Kodu	Ders Adı	T+U+L	Zorunlu/Seçmeli	AKTS
ALM 101	Almanca I	2+2+0	Seçmeli	5
BA 102	Introduction to Business Administration	3+0+0	Seçmeli	5
BA 202	Research Methods for Social Sciences	2+1+0	Seçmeli	6

CHN 101	Chinese I	2+2+0	Seçmeli	5
CHN 102	Chinese II	2+2+0	Seçmeli	5
COME 108	Algorithms and Programming II	2+0+2	Seçmeli	6
CONT 221	Actuators&Controllers	2+2+0	Seçmeli	6
CONT 315	Motion Control Systems	3+0+0	Seçmeli	6
CONT 321	Sensing and Transducing Systems in Control	3+0+0	Seçmeli	6
CONT 322	Process Control	3+0+0	Seçmeli	6
CONT 323	Fundamentals of Adaptive Control Theory	3+0+0	Seçmeli	6
CONT 324	Data Communication and Networks	3+0+0	Seçmeli	6
CONT 325	Statistical Data Analysis	3+0+0	Seçmeli	6
CONT 326	Communication Command and Control Systems	3+0+0	Seçmeli	6
CONT 327	Electrical Machines	3+0+0	Seçmeli	6
CONT 328	Distributed Real-Time Systems	0+0+0	Seçmeli	6
CONT 413	Intelligent Control Systems	3+0+0	Seçmeli	6
CONT 421	Introduction to Optimal Control	3+0+0	Seçmeli	6
CONT 422	Building Automation	3+0+0	Seçmeli	6
CONT 423	Microcontroller-based Control Systems	3+0+0	Seçmeli	6
CONT 424	Electrical Transportation Systems	0+0+0	Seçmeli	6
CONT 425	Optimization in Control Engineering	0+0+0	Seçmeli	6
CONT 426	Embedded Control Systems	3+0+0	Seçmeli	6
CONT 427	Non-linear Systems and Chaos	0+0+0	Seçmeli	6
CONT 428	Robot Technology	3+0+0	Seçmeli	6
CONT 431	Introduction to Nonlinear Control	3+0+0	Seçmeli	6
ECON 101	Introduction to Economics	3+0+0	Seçmeli	5
ELIT 222	Utopia	2+0+0	Seçmeli	4
GER 102	German II	2+2+0	Seçmeli	5
HUM 302	Sources of Contemporary Europe and Modern Ethics	2+2+0	Seçmeli	5
IE 304	Applications in Data Analysis	3+0+0	Seçmeli	6
PHYS 224	Modern Physics I	3+0+0	Seçmeli	6
POLS 101	Introduction to Social Sciences	2+0+0	Seçmeli	6
SOC 242	Making of the Modern World	2+0+0	Seçmeli	6

7.Yarıyıl Ders Planı				
Ders Kodu	**Ders Adı**	**T+U+L**	**Zorunlu/Seçmeli**	**AKTS**
CONT 403	Control System Design Project	2+0+2	Zorunlu	6
CONT 411	Introduction to Robotics	3+0+0	Zorunlu	5
EF 403	Ethics and Occupational Safety in Engineering	0+2+0	Zorunlu	1
S36076	Internship	0+0+0	Zorunlu	6
Dep.El.7	Departmental Elective (2 Piece)	-	Seçmeli	1
			Toplam AKTS	**19**
Gruplu Dersler				
COME 108	Algorithms and Programming II	2+0+2	Seçmeli	6
CONT 221	Actuators&Controllers	2+2+0	Seçmeli	6
CONT 315	Motion Control Systems	3+0+0	Seçmeli	6
CONT 321	Sensing and Transducing Systems in Control	3+0+0	Seçmeli	6
CONT 322	Process Control	3+0+0	Seçmeli	6
CONT 323	Fundamentals of Adaptive Control Theory	3+0+0	Seçmeli	6
CONT 324	Data Communication and Networks	3+0+0	Seçmeli	6
CONT 325	Statistical Data Analysis	3+0+0	Seçmeli	6
CONT 326	Communication Command and Control Systems	3+0+0	Seçmeli	6
CONT 327	Electrical Machines	3+0+0	Seçmeli	6
CONT 328	Distributed Real-Time Systems	0+0+0	Seçmeli	6
CONT 413	Intelligent Control Systems	3+0+0	Seçmeli	6
CONT 421	Introduction to Optimal Control	3+0+0	Seçmeli	6
CONT 422	Building Automation	3+0+0	Seçmeli	6
CONT 423	Microcontroller-based Control Systems	3+0+0	Seçmeli	6
CONT 424	Electrical Transportation Systems	0+0+0	Seçmeli	6
CONT 425	Optimization in Control Engineering	0+0+0	Seçmeli	6
CONT 426	Embedded Control Systems	3+0+0	Seçmeli	6
CONT 427	Non-linear Systems and Chaos	0+0+0	Seçmeli	6
CONT 428	Robot Technology	3+0+0	Seçmeli	6
CONT 431	Introduction to Nonlinear Control	3+0+0	Seçmeli	6
IE 304	Applications in Data Analysis	3+0+0	Seçmeli	6

8.Yarıyıl Ders Planı				
Ders Kodu	**Ders Adı**	**T+U+L**	**Zorunlu/Seçmeli**	**AKTS**
CONT 412	Principles of Industrial Automation	2+0+2	Zorunlu	6
CONT 492	Graduation Project	0+6+0	Zorunlu	8
Dep.El.8	Departmental Elective (1 Piece)	-	Seçmeli	1

Fac.El.8	Faculty Elective (2 Piece)		-	Seçmeli	1
				Toplam AKTS	**16**
	Gruplu Dersler				
COME 108	Algorithms and Programming II	2+0+2		Seçmeli	6
COME 211	Discrete Computational Structures	3+0+0		Seçmeli	5
COME 214	Programming Language Concepts	2+0+2		Seçmeli	5
COME 218	Data Structures and Algorithms	2+0+2		Seçmeli	6
COME 226	Computer Organization and Architecture	2+0+2		Seçmeli	5
COME 342	Introduction to Software Engineering	2+0+2		Seçmeli	6
CONT 221	Actuators&Controllers	2+2+0		Seçmeli	6
CONT 315	Motion Control Systems	3+0+0		Seçmeli	6
CONT 321	Sensing and Transducing Systems in Control	3+0+0		Seçmeli	6
CONT 322	Process Control	3+0+0		Seçmeli	6
CONT 323	Fundamentals of Adaptive Control Theory	3+0+0		Seçmeli	6
CONT 324	Data Communication and Networks	3+0+0		Seçmeli	6
CONT 325	Statistical Data Analysis	3+0+0		Seçmeli	6
CONT 326	Communication Command and Control Systems	3+0+0		Seçmeli	6
CONT 327	Electrical Machines	3+0+0		Seçmeli	6
CONT 328	Distributed Real-Time Systems	0+0+0		Seçmeli	6
CONT 413	Intelligent Control Systems	3+0+0		Seçmeli	6
CONT 421	Introduction to Optimal Control	3+0+0		Seçmeli	6
CONT 422	Building Automation	3+0+0		Seçmeli	6
CONT 423	Microcontroller-based Control Systems	3+0+0		Seçmeli	6
CONT 424	Electrical Transportation Systems	0+0+0		Seçmeli	6
CONT 425	Optimization in Control Engineering	0+0+0		Seçmeli	6
CONT 426	Embedded Control Systems	3+0+0		Seçmeli	6
CONT 427	Non-linear Systems and Chaos	0+0+0		Seçmeli	6
CONT 428	Robot Technology	3+0+0		Seçmeli	6
CONT 431	Introduction to Nonlinear Control	3+0+0		Seçmeli	6
IE 303	Game Theory for Engineers	3+0+0		Seçmeli	6
IE 304	Applications in Data Analysis	3+0+0		Seçmeli	6
IE 321	Machine Elements	3+0+0		Seçmeli	6
IE 362	Engineering Economy	3+0+0		Seçmeli	4
IE 405	Stochastic Models	3+0+0		Seçmeli	6
IE 434	Entrepreneurship and Innovation	2+2+0		Seçmeli	6
IE 476	Environmental Studies	3+0+0		Seçmeli	6
ME 103	Computer Aided Engineering Graphics	2+0+2		Seçmeli	5
ME 212	Materials Science	3+0+1		Seçmeli	5
ME 264	Thermodynamics I	3+1+0		Seçmeli	5
ME 322	Machine Elements I	3+1+0		Seçmeli	5
ME 352	Heat Transfer	3+1+0		Seçmeli	5
	SEÇMELİ DERSLER HAVUZU				
ALM 101	Almanca I	2+2+0		Seçmeli	5
BA 102	Introduction to Business Administration	3+0+0		Seçmeli	5
BA 202	Research Methods for Social Sciences	2+1+0		Seçmeli	6
CHN 101	Chinese I	2+2+0		Seçmeli	5
CHN 102	Chinese II	2+2+0		Seçmeli	5
COME 108	Algorithms and Programming II	2+0+2		Seçmeli	6
COME 211	Discrete Computational Structures	3+0+0		Seçmeli	5
COME 214	Programming Language Concepts	2+0+2		Seçmeli	5
COME 218	Data Structures and Algorithms	2+0+2		Seçmeli	6
COME 226	Computer Organization and Architecture	2+0+2		Seçmeli	5
COME 342	Introduction to Software Engineering	2+0+2		Seçmeli	6
CONT 221	Actuators&Controllers	2+2+0		Seçmeli	6
CONT 315	Motion Control Systems	3+0+0		Seçmeli	6
CONT 321	Sensing and Transducing Systems in Control	3+0+0		Seçmeli	6
CONT 322	Process Control	3+0+0		Seçmeli	6
CONT 323	Fundamentals of Adaptive Control Theory	3+0+0		Seçmeli	6
CONT 324	Data Communication and Networks	3+0+0		Seçmeli	6
CONT 325	Statistical Data Analysis	3+0+0		Seçmeli	6
CONT 326	Communication Command and Control Systems	3+0+0		Seçmeli	6
CONT 327	Electrical Machines	3+0+0		Seçmeli	6
CONT 328	Distributed Real-Time Systems	0+0+0		Seçmeli	6
CONT 413	Intelligent Control Systems	3+0+0		Seçmeli	6
CONT 421	Introduction to Optimal Control	3+0+0		Seçmeli	6
CONT 422	Building Automation	3+0+0		Seçmeli	6
CONT 423	Microcontroller-based Control Systems	3+0+0		Seçmeli	6

CONT 424	Electrical Transportation Systems	0+0+0	Seçmeli	6
CONT 425	Optimization in Control Engineering	0+0+0	Seçmeli	6
CONT 426	Embedded Control Systems	3+0+0	Seçmeli	6
CONT 427	Non-linear Systems and Chaos	0+0+0	Seçmeli	6
CONT 428	Robot Technology	3+0+0	Seçmeli	6
CONT 431	Introduction to Nonlinear Control	3+0+0	Seçmeli	6
ECON 101	Introduction to Economics	3+0+0	Seçmeli	5
ELIT 222	Utopia	2+0+0	Seçmeli	4
GER 102	German II	2+2+0	Seçmeli	5
HUM 302	Sources of Contemporary Europe and Modern Ethics	2+2+0	Seçmeli	5
IE 303	Game Theory for Engineers	3+0+0	Seçmeli	6
IE 304	Applications in Data Analysis	3+0+0	Seçmeli	6
IE 321	Machine Elements	3+0+0	Seçmeli	6
IE 362	Engineering Economy	3+0+0	Seçmeli	4
IE 405	Stochastic Models	3+0+0	Seçmeli	6
IE 434	Entrepreneurship and Innovation	2+2+0	Seçmeli	6
IE 476	Environmental Studies	3+0+0	Seçmeli	6
ME 103	Computer Aided Engineering Graphics	2+0+2	Seçmeli	5
ME 212	Materials Science	3+0+1	Seçmeli	5
ME 264	Thermodynamics I	3+1+0	Seçmeli	5
ME 322	Machine Elements I	3+1+0	Seçmeli	5
ME 352	Heat Transfer	3+1+0	Seçmeli	5
PHYS 224	Modern Physics I	3+0+0	Seçmeli	6
POLS 101	Introduction to Social Sciences	2+0+0	Seçmeli	6
SOC 242	Making of the Modern World	2+0+0	Seçmeli	6