

# AUTOMATIC CONTROL SYSTEMS

1	Course Title:	AUTOMATIC CONTROL SYSTEMS	
2	Course Code:	TRMS218	
3	Type of Course:	Optional	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. YAHYA ULUSOY	
15	Course Lecturers:	ÖĞR.GÖR.GİZEM AKALP	
16	Contact information of the Course Coordinator:	gizema@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	Teach the operation of automatic control systems in the technological field, which provides an understanding of the functions of automatic control systems to gain knowledge and skills, to teach the control systems and transfer functions of these systems, industrial inspection bodies to introduce.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Automatic Control of the basic concepts and definitions related to the system dynamics and automatic control subjects used in the analysis of mathematical properties of the Laplace transform
		2	Automatic control systems, defining the characteristics of input-output transfer functions and block diagrams to make enough practice on these issues and the adequacy of removal of
		3	Shows the input face of a certain temporary and permanent systems achieve the required behavior and the situation in this regard concepts
		4	Automatic control systems that constitute the brain control the structure of organs, the basic control (PID), and their working styles and forms of application possibilities of industrial control systems
		5	Stability control systems;

		6	Measuring organ, organ of control of the system and control concepts		
		7	Modern and contemporary issues and gain the ability to learn.		
		8			
		9			
		10			
21	Course Content:				
	Course Content:				
Week	Theoretical		Practice		
1					
2					
3					
4					
5					
6					
7					
8					
9					
Activites			Number	Duration (hour)	Total Work Load (hour)
12	Theoretical		14	2.00	28.00
Practicals/Labs			0	0.00	0.00
14	Self study and preperation		14	2.00	28.00
Homeworks			0	0.00	0.00
Projects	Materials:		Control Systems, Nobel 2006	0.00	0.00
Field Studies			0	0.00	0.00
Midterm exams			1998	16.00	32.00
Others			0	0.00	0.00
Final Exams			W.J. Palm III, John Wiley & Sons. Inc., 1999	16.00	16.00
Total Work Load					104.00
Total work load/ 30 hr			Design of Feedback Control Systems, Oxford University Press 2002		3.47
ECTS Credit of the Course					3.00
			Birsen Yayinevi		
23	Assesment				
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT		
Midterm Exam		2	50.00		
Quiz		0	0.00		
Home work-project		0	0.00		
Final Exam		1	50.00		
Total		3	100.00		
Contribution of Term (Year) Learning Activities to Success Grade			50.00		
Contribution of Final Exam to Success Grade			50.00		

Total									100.00							
Measurement and Evaluation Techniques Used in the Course																
24	ECTS / WORK LOAD TABLE															
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	1	1	1	2	4	4	4	1	2	2	4	0	0	0	0	0
ÖK2	1	1	1	2	4	4	4	1	2	2	4	0	0	0	0	0
ÖK3	1	1	1	2	4	4	4	1	2	2	4	0	0	0	0	0
ÖK4	1	1	1	2	4	4	4	2	2	2	4	0	0	0	0	0
ÖK5	1	1	1	2	4	4	4	2	2	2	4	0	0	0	0	0
ÖK6	2	1	2	2	3	4	4	2	1	2	3	0	0	0	0	0
ÖK7	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			