COMPUTERIZED CONTROL

1	Course Title:	COMPUTERIZED CONTROL
2	Course Code:	MKRS225
3	Type of Course:	Optional
4	Level of Course:	Short Cycle
5	Year of Study:	2
6	Semester:	3
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:	Öğr. Gör. Dr. İSMET GÜCÜYENER
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.
16	Contact information of the Course Coordinator:	ismetguc@uludag.edu.tr, 02242942349, U.Ü. TBMYO Mekatronik Prg. Bşk. Görükle Bursa
17	Website:	
18	Objective of the Course:	In this course, aimed to gain competencies of applying control operations with learning visual programming language.
19	Contribution of the Course to Professional Development:	Systems that provide control and communication capability are becoming more common. It requires learning industrial control systems with computers in order to use more specific systems.
20	Learning Outcomes:	

		1	Being able to use of the interface visual programming language.
		2	Being able to write codes with visual programming language.
		3	Being able to use input output ports .
		4	Being able to use array operations
		5	Being able to use loop operations
		6	Being able to use functions
		7	Being able to use RS-232 serial port
		8	Being able to use USB port
		9	
		10	

21	Course Content:	

Course Content:		
Week	Theoretical	Practice
1	Specifications of microcontroller	
2	Using of ports	
3	Using of ports	
4	Using of timers	
5	Acquiring of analog data	

6	Acquiring of analog data	
7	Acquiring of analog data	
8	Repeating courses First midterm	
9	Creating of analog output	
10	Creating of analog output	
11	Interrupt operations	
12	Control algorithms applications with acquiring of analog data	
13	Repeating courses Second midterm	
14	Control algorithms applications with acquiring of analog data	
22	Textbooks, References and/or Other Materials:	
23	Assesment	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	2	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	3	100.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	2	3.00	6.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	2	8.00	16.00
Others	0	0.00	0.00
Final Exams	1	12.00	12.00
Total Work Load			106.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

Total: 100.00

Course: the priciples of Bursa uludag University Associate and Undergraduate Education Regulation

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	3	3	2	4	4	3	2	0	3	4	5	0	0	0	0	0
ÖK2	3	2	2	3	4	4	4	5	2	4	4	0	0	0	0	0
ÖK3	3	2	3	1	3	4	4	2	2	2	4	0	0	0	0	0
ÖK4	2	4	1	1	2	3	5	2	2	4	4	0	0	0	0	0

ÖK5	0	0	1	1	2	3	5	3	2	4	3	0	0	0	0	0
ÖK6	4	4	2	1	2	3	4	4	3	3	5	0	0	0	0	0
ÖK7	4	4	4	2	3	2	4	3	2	2	4	0	0	0	0	0
ÖK8	1	4	3	2	2	2	3	3	2	3	5	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