HYDRALICS AND PNOMATICS SYSTEMS

1	Course Title:	HYDRALICS AND PNOMATICS SYSTEMS
2	Course Code:	OTOS205
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:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr. Gör. CAFER KAPLAN
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.
16	Contact information of the Course Coordinator:	Öğr. Gör Cafer KAPLAN Bursa Uludağ Üniversitesi Teknik Bilimler MYO Hibrid ve Elektrikli Taşıtlar Prog. Görükle / Bursa
17	Website:	
18	Objective of the Course:	In this course, the hydraulic-pneumatic circuit elements to create circuit systems maintenance and repair of machine tools and related qualifications to teach.
19	Contribution of the Course to Professional Development:	to operate on hydroulic systems to operate on pnomatic systems To do basic maintenance and repair of looms
20	Learning Outcomes:	

	1	to operate on hydroulic systems
	2	to operate on pnomatic systems
	3	To do basic maintenance and repair of looms
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Hydraulic identify circuit components	
2	Creating a Hydraulic Circuit Diagram	

3	Detecting failures in hydraulic systems	
4	Troubleshoot Hydraulic Failure	
5	Pneumatic identify circuit components	
6	Create Electropneumatic Systems	
7	Creating a pneumatic circuit diagram	
8	Midterm Exam	
9	Create Electropneumatic Systems	
10	Pneumatic systems to detect failures	
11	Pneumatic Troubleshooting Malfunctions	
12	Make periodic checks of systems	
13	Periodic maintenance of the systems do	
14	Failure to make that determination Repairing the defective machine	

22	Textbooks, References and/or Other Materials:	lecture notes
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.

24	**ECTS / WORK LOAD TABLE**

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	15	1.00	15.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	20.00	20.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			83.00
Total work load/ 30 hr			2.77
ECTS Credit of the Course			3.00

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	4	4	3	4	3	3	4	4	0	0	0	0	0	0	0
ÖK2	3	4	4	5	5	4	3	4	3	0	0	0	0	0	0	0
ÖK3	4	4	5	5	5	4	4	4	4	0	0	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**