HEAVY CONSTRUCTION MACHINES										
1	Course Title:	HEAVY	CONSTRUCTION MACHINES							
2	Course Code:	OTO403	1							
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	cle							
5	Year of Study:	4								
6	Semester:	7								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	3.00								
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. M.İHSAN KARAMANGİL								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	E-posta : ihsan@uludag.edu.tr T: +90 224 2941978 Uludağ Üniversitesi Mühendislik Mimarlık Fakültesi Otomotiv Mühendisliği Bölümü Görükle Kampusu Bursa 16059								
17	Website:									
18	Objective of the Course:	Aim of this course is to gain basic information about duty machines types, application areas and maintenance.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Learning the duty machines types and application areas							
		2	Recognition of the auxiliary equipment and systems special for duty machines.							
		3	Operations of duty machines maintenance.							
		4	Learning the differentiated spots from classical vehicle.							
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:	-								
10.		Co	ourse Content:							
	Theoretical		Practice							
1	Introduction to duty machines.									
2	Duty machines types, application are characteristics	eas and								
3	Work site and land machines.									

4	Crawler duty machine.						
5	Wheeled duty machines and drive sy	stems.					
6	Tower crane duty machine.						
7	Tractor and grayders.						
8	Asphalt and work site machines.						
9	Midterm exam.						
10	Excavator and scrayper digging macl	hines					
11	Rock drilling machines.						
12	Maintenance on duty machines.						
13	Maintenance on duty machines.						
14	Safety and security precautions.						
22	Textbooks, References and/or Other Materials:		Lecture notes, Mahmut düz.				
23	Assesment						
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT				
Midtern	n Exam	1	25.00				
Quiz		0	0.00				
Home v	vork-project	2	15.00				
Final E	xam	1	60.00				
Total		4	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				
Measur Course	ement and Evaluation Techniques Us	sed in the					
24	ECTS / WORK LOAD TABLE						

Activites	Number	Duration (hou	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	1	25.00	25.00
Homeworks	2	25.00	50.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	25.00	25.00
Others	0	0.00	0.00
Final Exams	1	8.00	8.00
Total Work Load			150.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			5.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	1	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:		2	2 low		3 Medium		4 High			5 Very High						