MODERN MANUFACTURING METHODS

1	Course Title:	MODER	N MANUFACTURING METHODS						
2	Course Code:	MAK4102							
3	Type of Course:	Optional							
4	Level of Course:	First Cycle							
5	Year of Study:	4							
6	Semester:	8							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Prof. Dr.	Nurettin Yavuz						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Tel: 0 224 294 0651 Mail: nyavuz@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	The goals of this course is the scientific principles of modern manufacturing methods.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Know and understand existing modern manufacturing methods.						
		2	Compare modern and traditional manufacturing methods.						
		3	Understand aplication area, advatage and disadvantage of modern manufacturing methods.						
		4	Understand forming with the modern manufacturing methods.						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
	Theoretical		Practice						
1	Introduction								
2	Operation with Electric Discharge								

3	Operation with Electric Bombardmen	t							
4	Operation with Laser Beams								
5	Chemical and Electrochemical Opera	ation							
6									
7	Ultrasonic Operation								
	Operation with Ion Beams								
8	Repeating courses and midterm example	m							
9	Electro Hydraulic Forming								
10									
10	High Speed Forging								
11	Electromagnetic Formation								
12	Surface Plating								
Activit	tes		Number	Duration (hour)	ır) Total Work Load (hour)				
Theore	tical		14	3.00	42.00				
Practic	als/Labs		0	0.00	0.00				
Self stu	dy and preperation		Fundamentals of Moder BMonufacturing Metaziels,						
Homev	vorks		0	0.00					
Project	ξ			0.00					
Field S	tudies		0	0.00	0.00				
Midterr	n exams		1 Powdor Motolluray		20.00				
Others			1	21.00	21.00				
	kassesment		1	25.00	25.00				
	Vork Load	IR			150.00				
	vork load/ 30 hr	1	40.00		5.00				
	Credit of the Course	U	0.00		4.00				
Home	work-project	0	0.00						
Final E	xam	1	60.00						
Total		2	100.00						
	oution of Term (Year) Learning Activitiess Grade	es to	40.00						
Contrib	oution of Final Exam to Success Grade	е	60.00						
L			100.00						
Total			100.00						
	rement and Evaluation Techniques Us	sed in the	100.00						

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	0	0	5	4	0	0	0	2	0	3	0	0	0	0	0	0
ÖK2	0	0	5	4	0	0	0	2	0	3	0	0	0	0	0	0
ÖK3	0	0	5	4	0	0	0	2	0	3	0	0	0	0	0	0
ÖK4	0	0	5	4	0	0	0	2	0	3	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 Iow		3 Medium		um	4 High			5 Very High					