

ADVANCED MANUFACTURING TECHNOLOGY

1	Course Title:	ADVANCED MANUFACTURING TECHNOLOGY	
2	Course Code:	EKLS102	
3	Type of Course:	Optional	
4	Level of Course:	Short Cycle	
5	Year of Study:	1	
6	Semester:	2	
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. Rasim KADERLİ	
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.	
16	Contact information of the Course Coordinator:	Öğr.Gör. Rasim KADERLİ rkaderli@uludag.edu.tr Teknik Bil. M.Y.O Makine Prog. Tlf.224 2942375	
17	Website:		
18	Objective of the Course:	In this course; It is aimed to teach alternative advanced manufacturing methods for processing high hardness metals and geometric shapes that are difficult to process with classical manufacturing methods and to be able to apply the knowledge they have learned in the industry.	
19	Contribution of the Course to Professional Development:	Learning advanced manufacturing technologies.	
20	Learning Outcomes:		
		1	To be able to explain what advanced manufacturing methods are
		2	To be able to establish a relationship between classical methods and advanced manufacturing methods
		3	Solving problems arising from the production method
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Introduction to advanced manufacturing methods		
2	Classical manufacturing methods and Casting		

3	Laser beam processing and cutting	
4	Plasma cutting	
5	Waterjet cutting	
6	EDM machining	
7	Wire EDM cutting	
8	Midterm	
9	Working in groups with unconventional production methods	
10	Working in groups with unconventional production methods	
11	Working in groups with unconventional production methods	
12	Working in groups with unconventional production methods	
13	Working in groups with unconventional production methods	
14	General review	
22	Textbooks, References and/or Other Materials:	
23	Assesment	
TERM LEARNING ACTIVITIES		NUMBER
		WEIGHT
Midterm Exam		1
Quiz		0
Home work-project		0
Final Exam		1
Total		2
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		To enable the students to put into practice the theoretical knowledge they have obtained about the profession they study, to come face to face with the practices in the workplace and to gain experience in addition to the theoretical knowledge.
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	10	1.00	10.00
Homeworks	0	0.00	0.00
Projects	15	2.00	30.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	15.00	15.00
Total Work Load			103.00
Total work load/ 30 hr			3.10
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	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			