MACHINE TOOLS										
1	Course Title:	MACHIN	NE TOOLS							
2	Course Code:	END202	4							
3	Type of Course:	Compuls	Sory							
4	Level of Course:	First Cyc	le							
5	Year of Study:	2								
6	Semester:	4								
7	ECTS Credits Allocated:	2.00								
8	Theoretical (hour/week):	2.00	2.00							
9	Practice (hour/week):	0.00	0.00							
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Öğr. Gör	. CİHAT ENSARİOĞLU							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	cemal@1 0224 294 U.U. Mül	cemal@uludag.edu.tr 0224 2941958 U.U. Müh-Mim Fak. Makine Müh. Böl. BURSA							
17	Website:									
18	Objective of the Course:	To provid Tools us	de technical and practical information about the Machine sed in metal cutting							
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
	•	1	Explain the principles of metal cutting.							
		2	Understand the systematic classification of machine tools.							
		3	Describe the mechanical components of machine tools used in various metal cutting operations.							
		4	Calculate the cutting force componentsand cutting powerofvarious machine tools.							
		5	Recognise the dynamics of various machine tools, determine the cutting parameters that effect the metal cutting and calculate machining time for each operation.							
		6	Select the cutting tools used in various metal cutting operations.							
		7	Understand the determination of optimum cutting parameters according to minimum production cost or minimum production time criteria.							
		8	Describe the cutting tool – workpiece – machining parameters – tool geometry relations for various machine tools.							
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
Week	Theoretical		Practice							
1	General classification of machine too	ols								

2	Lathes, turning applications																		
3	Effeo oper	Effects of tool geometry into turning operations																	
4	Copy turni	ying ı ng	machi	nes, C	Copy t	urning,	profil	e											
5	Inter	ternal turning operations																	
6	Drilli drillir	Drilling, reaming, counterboring operations, drilling machines																	
7	Prob drillir	olems ng op	s & so peratio	lutions ons	s abou	ut turnir	ng and	ł											
8	Repe	eatin	g cou	rses a	nd mi	dterm e	exam												
9	Parti	ing a	nd gro	poving	opera	ations													
10	Ecor	nomie	cs of r	nachir	ning														
11	Millir	ng ma	achine	es, fac	e mill	ing ope	eratior	IS											
12	Perip	ohera	al milli	ng op	eratio	ns													
13	Prob	lems	s & so	lutions	abou	ut millin	ig ope	ration	s										
14	Grinding machines, grinding operations																		
22	Textbooks, References and/or Other Materials:									Prof. Dr. M. Cemal ÇAKIR, Modern Talaşlı İmalat yöntemleri, Vipaş, 2001 Modern Metal Cutting, Toftersa Tryckeri, AB, 1994									
									Ma	achine	I OOI A	nd Mar	loure	ing le	gy, S. Krar,				
Activites									NUME	er		Dura	Duration (nour)			Load (hour)			
TERM LEARNING ACTIVITIES NUMBE									: wi	W ЕІ́СНТ				2.00			28.00		
Practicals/Labs										0				0.00			0.00		
Self zstu	idy ar	nd pr	epera	tion			0		0.6	0.00				5.00			20.00		
Homew	lomeworks									1			20.00			20.00			
Freife	9å₽₽\$am 1									50.00			0.00			0.00			
Field St	Id Studies									4				2.00					
Midteno	អាតាសារ (Year) Learning Activities to									50!00 2.00						2.00			
Others	hers									3			3.00	3.00			9.00		
EionattriEs	ional fexations of Final Exam to Success Grade									50100			4.00			4.00			
Total W	Total Work Load													91.)1.00		
Measurement and Evaluation Techniques Used in the								e	3.03					3.03					
ECTS Credit of the Course															2.00				
24	EC	12/	WOI		UAD	IAB													
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	ſ	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	(C	3	4	3	0	0	2	0	0	0	0	0	0	0	0	0		
ÖK2	(C	3	0	3	4	0	1	0	0	0	0	0	0	0	0	0		
ÖK3	(C	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
ÖK4	Ę	5	5	0	0	4	0	0	0	0	0	0	0	0	0	0	0		

ÖK5	5	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	3	4	2	5	0	0	0	0	0	0	0	0	0	0	0
ÖK7	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	3	5	0	4	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3 Medium		4 High			5 Very High						