	MA	CHINE								
1	Course Title:	MACHIN	IE MATERIALS							
2	Course Code:	BSM382	21-S							
3	Type of Course:	Optional	Optional							
4	Level of Course:	· ·	First Cycle							
5	Year of Study:	3								
6	Semester:	5								
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:	-								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Doç.Dr.	NAZMI IZLI							
15	Course Lecturers:	-								
16	Contact information of the Course Coordinator:	e-posta :nizli@uludag.edu.tr Telefon: 0 224 2941604 Adres: Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059,								
17	Website:									
18	Objective of the Course:	Outcome way of choose abilities to more proper material according to technical specification of materials in machine and structure constructions also with respect to determination of technical specifications of metallic material which will used in machine frame and components and developing of a new material								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Students can be recognise of any material and can be say to places which is used according to base science							
		2	Students can be determine of technical specifications of a material investigating as a mathematical or experimental							
		3	Students can be decide to proper by making a strength analysis for plastic and metallic materials using often in industr.							
		4	Students can be able to know to methods of ensuring of basic materials using often in industry and its can be able to apply for another materials							
		5	Students can be know to alloy methods and heat processes of metallic materials and they can be apply to the methods and processes for a new specific material							
		6	Students can be know to protection methods of metallic material at the opposite of outside effects and can be apply to the methods properly							
		7	A proper material using in manufacture by analysis can be choosing							
		8	Applying to method of a material choosing to basic informations of engineering which was taken from other courses							

		Having of an ability in analysis of a material and to create a new material
		Following a new material which was developed as international and developing a new material according to domestic conditions
21	Course Content:	

21	Course Content:											
	Co	ur	se Content:									
Week	Theoretical	Pr	ractice									
1	General classification of materials,explanation of places using as with a special objective Demonstration of steel materials using often in Industry											
2	Explanation of mechanic and physical specifications of materials and analyzing by mathematical equations Solution some problems related to mechanic and physical specifications of materials											
3	Information on determination of methods of mechanic and physical specifications related to some methallic materials as experimental Explanation on draw experiment of steel material											
4	Explanation on shaping specifications of steel materials using in machine constructions Demonstration on bent and bow experiment in Sheet metals											
Activit			Number	Duration (hour)	Total Work Load (hour)							
Theore	or metallic materials fical Explanation on cyristal systems of interior	Π	14	2.00	28.00							
Practic	als/Labs		0	0.00	0.00							
Self stu	specifications of interior structer of metallic dy and preperation and plastic materials		14	2.00	28.00							
Homew	vorks		0	0.00	0.00							
Project	structer of metallic materials		Q	0.00	0.00							
Field S			0	0.00	0.00							
Midterr	Explansation on ensuring method of iron with	Π	1	15.00	15.00							
Others			0	0.00	0.00							
Final E	exβfanation on alloy kinds		1	25.00	25.00							
	Vork Load				96.00							
Totai w	ork load/ 30 hr Repeating courses and midterm exam				3.20							
	Credit of the Course				3.00							
	specifications											
10	Instructions on miscellaneous steels using often in industry and showing way of steels briefly in standards Some examples related to showing of steels brieflyi											
11	Instructions on miscellaneous plastics and its classifications according to some specifications Instructions on ensuring methods for plastics											

12	mater	cting ials ectin	g metl Ig way	nods fi /s of n	rom c netalli	c mate orrosio c mate	n of r	netalli	c											
13	metho	bd				ls by ci		ation												
14	Expla interic as cei	nati or st ram anat	on of ructer ic,woo ion o	specif of ma	icatio aterial	n meth ns of p s as ou ng in ine	hysic ut of r	netal												
22										 1-ZEYTİNOĞLU M. 2003. Science of Material Course Notes of Agriculture Faculty of U.Ü. No:96 (128p.) 2-BAYDUR,G.,1979. Serial:32 Books of Government of Material 3-PATTON,W.J., 1975.Materials in Industry.Department of mechanical technology,Red RiverCommunity, New Jersey. 4-ONARAN,K., 1996.Problems of Material Science and solutions Science,Technic publish house İstanbul ,167 p. 5-ZEREN,Y.,1988. Material Science of Machine,Agricultural Mechanization Dept.of Agriculture Faculty of Ç.Ü. Adana,188p. 										
23	Asses	sme	nt																	
TERML	EARN	ING	ACTI	VITIES	;				E WE	WEIGHT										
Midterr	erm Exam 1										40.00									
Quiz							()	0.0	0.00										
Home	work-p	roje	ct				()	0.0	0.00										
Final E	xam						1		60.	60.00										
Total							2		-	100.00										
Contrib Succes			erm (`	(ear) l	Learn	ing Act	ivities	s to	40.	40.00										
Contrib	oution c	of Fi	nal E	xam to	Suc	cess G	rade		60.	60.00										
Total									10	100.00										
Measu Course		t an	d Eva	luatio	n Tec	nnique	s Use	ed in th	ie											
24		s /	WO	RK L	OAD	TAB	LE		1											
25			(CON	TRIE	UTIO	N O			-			S TO I	PROC	GRAMI	ME				
	P	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	3		3	4	3	4	3	4	5	4	3	4	4	0	0	0	0			
ÖK2	3		3	3	5	4	3	4	4	5	4	3	3	0	0	0	0			
ÖK3	4		3	4	3	5	3	3	5	4	4	3	5	0	0	0	0			
ÖK4	4		4	4	3	5	4	2	4	5	5	5	4	0	0	0	0			
ÖK5	4		4	4	2	5	3	4	4	3	3	4	4	0	0	0	0			
ÖK6	3		5	3	3	4	3	3	4	3	4	2	4	0	0	0	0			

ÖK7	4	4	4	3	5	2	3	5	3	3	4	4	0	0	0	0
ÖK8	5	4	4	2	4	3	3	5	2	3	4	4	0	0	0	0
ÖK9	4	5	5	4	5	4	4	4	4	4	5	5	0	0	0	0
ÖK10	3	4	4	4	4	3	3	4	3	3	3	4	0	0	0	0
	LO: Learning Objectives PQ: Program Qualifications															
Contrib 1 very low ution Level:			2 Iow		3 Medium			4 High			5 Very High					