	MACHINE MATERIALS									
1	Course Title:	MACHIN	IE MATERIALS							
2	Course Code:	BSM3821-S								
3	Type of Course:	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. NAZMİ İZLİ								
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							

		9	Having of an ability in a a new material	nalysis of a material	and to create					
		10	Following a new material which was developed as international and developing a new material according to domestic conditions							
21	Course Content:									
	Course Content:									
Week	Theoretical		Practice							
1	General classification of materials,ex of places using as with a special obje Demonstration of steel materials usin Industry	ctive								
2	Explanation of mechanic and physical specifications of materials and analyzimathematical equations Solution some problems related to rand physical specifications of material	zing by mechanic								
3	Information on determination of meth mechanic and physical specifications to some methallic materials as experi Explanation on draw experiment of s material	related imental								
4	Explanation on shaping specifications materials using in machine constructi Demonstration on bent and bow exp in Sheet metals	ions								
Activit	es	robleme.	Number	Duration (hour)	Total Work Load (hour)					
Theore			14	2.00	28.00					
Practica	Explanation on cyristal systems of intal	erior	0	0.00	0.00					
	ISPECTICATIONS OF INTERIOR STRUCTER OF MI OV AND DIECERATION Land plastic materials	etallic	14	2.00	28.00					
Homew			0	0.00	0.00					
	structer of metallic materials		0	0.00	0.00					
Field S	Caralanatian an area minerare attache at		0	0.00	0.00					
	Explaisation on ensuring method of in	ron with	1	15.00	15.00					
Others	lts: also south a se		0	0.00	0.00					
Final E	Manation on alloy kinds	naio ana	1	25.00	25.00					
	Vork Load				96.00					
Total w	ork load/ 30 hr IRepeating courses and midterm exar	~			3.20					
	Credit of the Course	11			3.00					
	getermination related to mechanic specifications									
10	Instructions on miscellaneous steels often in industry and showing way of briefly in standards Some examples related to showing obrieflyi	steels								
11	Instructions on miscellaneous plastic classifications according to some specifications Instructions on ensuring methods fo									

12	Heat processes of metallic materials protecting methods from corrosion of materials Protecting ways of metallic materials atmospherical effects	metallic						
13	Ensure of metallic materials by cinde method Explanation on cinderation method	ration						
14	Explanation of specifications of phys interior structer of materials as out of as ceramic,wood Explanation of areas using in industruct of metal	metal						
22	Textbooks, References and/or Other Materials:		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	Assesment							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midtern	n Exam	1	40.00					
Quiz		0	0.00					
Home v	Home work-project 0		0.00					
Final E	xam	1	60.00					
Total		2	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					
Course	1	sed in the						
24	ECTS / WORK LOAD TABLE							

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME **QUALIFICATIONS** PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ÖK3 ÖK4 ÖK5 ÖK6

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