MACHINE COMPONENTS										
1	Course Title:	MACHINE COMPONENTS								
2	Course Code:	BSM3807								
3	Type of Course:	Compuls	sory							
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):	1.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	none								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. Halil Ünal								
15	Course Lecturers:	yok								
16	Contact information of the Course Coordinator:	Prof.Dr. Halil Ünal e-posta : hunal@uludag.edu.tr Telefon: 0 224 2941607 Adres: Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA								
17	Website:	http://www20.uludag.edu.tr/~okursoy								
18	Objective of the Course:	the loads and conditions of farm machinery driven machine elements, depending on the intended use of the appropriate cross- sectional size and strength calculations and design elements, bolts, rivets, welding and welded joints, belt and pulley layouts, designs, power transmission shafts, helical springs, spiral springs and leaf calculation of springs, gears and gear mechanisms, brakes, couplings and bearings with the theoretical approaches to these elements								
19	Contribution of the Course to Professional Development:	The student learns the design and planning of each element that constitutes machinery and equipment and applies it in agricultural machinery and other machinery manufacturing sectors.								
20	Learning Outcomes:									
		1	To know the basic machine element and parts							
		2	To understand the technical information and accounts for the work of machine parts							
		3	According to the technique used in machine design and functional elements of the right to choose an approach							
		4								
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
	Course Content:									

Week	Theoretical		Practice							
1	The aim of the course, what the less conducted, test method, the course in to achieve the expected benefits will explained that the students what thei responsibilities	on to be n order be r own	introduction of machine elements							
2	The basic machine elements expans elastic modulus, moment of inertia	ion,	The basic machine elements expansion, elastic modulus, moment of inertia							
3	Fundamental strength properties of n elements and materials and these ma	nachine aterials	Introduction of machine parts, standards, teaching							
4	Design of machine elements, and So and Castigliano criteria	derberg	Information for Mechanical Design. The main problems encountered and solutions							
5	Power transmission shafts and shafts torque, moment, torsion and bending concepts	s. Shafts,	Power transmission shafts and shafts. Shafts, torque, moment, torsion and bending concepts							
6	Machine elements, links and welded	joints	Machine elements, links and welded joints							
7	midterm exam		Machine elements, links and welded joints							
8	Machine elements, links and welded	joints	Removable links. Screws on designs. rivet connections							
9	Removable links. Screws on designs connections	. rivet	problem solving session							
10	Springs and spring designs used in fa machinery. Leaf springs, helical sprir damping and vibration problems	arm ngs and	Springs and spring designs used in farm machinery. Leaf springs, helical springs and damping and vibration problems							
11	Power transmission components, be pulley mechanisms, gears and gear b	t and boxes	Power transmission components, belt and pulley mechanisms, gears and gear boxes							
Activit	es		Number	Duration (hour)	Total Work Load (hour)					
Theore	brake pads and brakes systems of n	nachines	brake pads and brakes	systems of machin	es and general					
Practica	als/Labs		14	2.00	28.00					
Self_stu	textbooks, Releasences and/or Other		1. Beutschmann, A.D., W. 18 Michell, C.E. Wisson, 1975.							
Homew	vorks		1	4.00	4.00					
Project	6		1	10.00 10.00						
Field St	tudies		0	0.00	0.00					
Midtern	n exams		volk. NY. USA.	2.00	2.00					
Others			0	0.00	0.00					
Figal E	kams		1	2.00	2.00					
Total W	/ork Load				98.00					
Total w	ork load/ 30 hr	R			3.20					
ECTS (	Credit of the Course				3.00					
Quiz		0	0.00							
Home v	vork-project	1	15.00							
Final E	xam	1	60.00							
Total		3	100.00							
Contrib Succes	ution of Term (Year) Learning Activitie s Grade	es to	40.00							
Contrib	ution of Final Exam to Success Grade	9	60.00							
Total			100.00							
Measur Course	ement and Evaluation Techniques Us	sed in the	Measurement and evaluation is carried out according to the principles of Bursa uludag University Associate and Undergraduate Education Regulation.							
24	ECTS / WORK LOAD TABLE									

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	2	2	2	2	3	2	2	2	2	5	5	2	0	0	0	0
ÖK2	3	5	4	2	5	2	2	4	2	4	5	3	0	0	0	0
ÖK3	4	5	3	3	5	2	2	4	2	4	5	3	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						