STATICS										
1	Course Title:	STATICS								
2	Course Code:	MAK1002								
3	Type of Course:	Compulsory								
4	Level of Course:	First Cycle								
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	3.00								
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 face								
14	Course Coordinator:	Dr. Ögr. Üyesi KENAN TÜFEKÇİ								
15	Course Lecturers:	Dr. Öğr. Üyesi Behiye KORKMAZ Dr. Öğr. Üyesi Betül Gülçimen ÇAKAN								
16	Contact information of the Course Coordinator:	kenantufekci@uludag.edu.tr 0224-2942794 Uludağ Üniversitesi Müh. Mim. Fak. Makine Müh. Bölümü TR-16059, Bursa, Türkiye.								
17	Website:									
18	Objective of the Course:	Teaching fundamentals of mechanics of rigid bodies and finding the forces acting on objects before design according to equilibrium positions.								
19	Contribution of the Course to Professional Development:	This course provides the basis for not only mechanical engineering but all mechanics-based engineering programs. All mechanical calculations in engineering start with static analysis.								
20	Learning Outcomes:									
		1	Teaching of vertical components of vectors, scalar and vector multiplication of two vectors, moment to teach the concepts.							
		2	Teaching of Equilibrium of a material point in space.							
		3	Teaching of structural analyses.							
		4	Teaching of frame analyses.							
		5	Calculating of Center of gravity.							
		6	Calculating of Moment of inertia.							
		7	Calculating of Friction Loads.							
		_	8							
		9								
		10								
21	Course Content:	-								
10/	T I (1)	Co	burse Content:							
Week	Theoretical		Practice							

1 1.Lesson: Basic definitions 2.Lesson: The basic principles based on the mechanics 3.Lesson: The basic principles based on the mechanics(cont.)	
2 1.Lesson: Statics analysis of material point 2.Lesson: Forces action to a material point 3.Lesson: Vertical components of a vector, unit vectors	
 3 1.Lesson: Scaler multiplication of two vectors, vectorial sum, moment 2.Lesson: Scaler multiplication of two vectors, vectorial sum, moment.(cont.) 3.Lesson:Movement of a force and couple system, Equivalent Forces 	
 4 1.Lesson: Moment of a force according to a point 2.Lesson: Equilibrium of a material point in planes. 3.Lesson: Free-Body Diagram 	
 5 1.Lesson: Equilibrium of a material point in space. 2.Lesson: Equilibrium of a material point in space. (cont.) 	
	tion (hour) Total Work Load (hour)
Theoretical Theoretical Clesson: Equilibriumof Forces Plane System 14 3.00	42.00
Theoretical143.00Practicals/Labs00.00	, , , , , , , , , , , , , , , , , , ,
	42.00
Practicals/Labs00.00Self study and preperation142.00Homeworks00.00	42.00 0.00
Practicals/Labs00.00Self study and preperation142.00Homeworks00.00ProjectsSystem0	42.00 0.00 28.00
Practicals/Labs00.00Self study and preperation142.00Homeworks00.00ProjectsSystem 2.1 esson: Equilibrium of Forces in Space0Field Studies00.00	42.00 0.00 28.00 0.00
Practicals/Labs00.00Self study and preperation142.00Homeworks00.00ProjectsSystem 2.1 esson: Equilibrium of Forces in Space0Field Studies00.00	42.00 0.00 28.00 0.00 0.00
Practicals/Labs00.00Self study and preperation142.00Homeworks00.00Project System 2 Lesson: Equilibrium of Forces in Space00.00Field Studies00.00	42.00 0.00 28.00 0.00 0.00 0.00 0.00
Practicals/Labs00.00Self study and preperation142.00Homeworks00.00Project System00.00Field Studies00.00Midtern System (cont.)12.00	42.00 0.00 28.00 0.00 0.00 0.00 2.00
Practicals/Labs00.00Self study and preperation142.00Homeworks00.00Project System 2.1 esson: Equilibrium of Forces in Space00.00Field Studies00.00Midtern System (cont.)00.00Others28.00Fin&l E Competing courses and solution examples.12.00Total Work Load000.00	42.00 0.00 28.00 0.00 0.00 0.00 2.00 16.00
Practicals/Labs00.00Self study and preperation142.00Homeworks00.00Project System 2.1 esson: Equilibrium of Forces in Space00.00Field Studies00.00Midtern System (cont.)00.00Others28.00Fin&l E Competing courses and solution examples.12.00Total Work Load000.00	42.00 0.00 28.00 0.00 0.00 0.00 2.00 16.00 2.00
Practicals/Labs00.00Self study and preperation142.00Homeworks00.00ProjectsSystem 2.1 esson: Equilibrium of Forces in Space00.00Field Studies00.00Midtern System (cont.)00.00Others28.00Final E Generating courses and solution examples.12.00	42.00 0.00 28.00 0.00 0.00 0.00 2.00 16.00 2.00 92.00
Practicals/Labs00.00Self study and preperation142.00Homeworks00.00ProjectsSystem00.00ProjectsSystem00.00Field Studies00.00MidternStresson: Equilibrium of Forces in Space12.00MidternStresson: Equilibrium of Forces in Space12.00Others28.00Final E campeating courses and solution examples.12.00Total Work LoadII2.00ECTS Credit of the CourseIII	42.00 0.00 28.00 0.00 0.00 0.00 2.00 16.00 2.00 92.00 3.00

12	 Lesson: Center of gravity and Distributed Loads Lesson: Center of gravity (cont.) Lesson: Center of gravity (cont.) 																		
13	1.Lesson: Moment of inertia 2.Lesson: Moment of inertia (cont.) 3.Lesson: Moment of inertia (cont.)																		
14	1.Lesson: Friction2.Lesson: Friction (cont.)3.Lesson: Friction (cont.)																		
22	Textbooks, References and/or Other Materials:									 Shelley, J.F., Engineering Mechanics, Statics, McGraw- Hill, 1980 Hibbeler, R.C., Statics, Second Edition, Macmillan Publishing Co., Inc., New York, 1978. Ferdinand P. Beer, Russell Johnston, Mühendisler için Mekanik-Statik, Birsen Yayınevi, 2011. 									
23	Assesment LEARNING ACTIVITIES NUMBE WEIG																		
TERML							R			WEIGHT									
Midterr	n Exa	m					1		40.	40.00									
Quiz	uiz						0		0.0	0.00									
	ome work-project								_	0.00									
	al Exam 1									60.00									
Total	2								_	100.00									
	ontribution of Term (Year) Learning Activities to access Grade								40.	40.00									
Contrib	Contribution of Final Exam to Success Grade								60.	60.00									
Total									100	100.00									
Measurement and Evaluation Techniques Used in the								Mid-term And Final Exam, The relative evaluation method is applied.											
24	ECT	'S /	WO	RK L	OAD	TAB	LE												
25										RNING OUTCOMES TO PROGRAMME UALIFICATIONS									
	P	2Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	5	;	5	5	0	3	5	0	0	0	0	0	0	0	0	0	0		
ÖK2	5	;	5	5	0	3	5	0	0	0	0	0	0	0	0	0	0		
ÖK3	5	5	5	5	0	3	5	0	0	0	0	0	0	0	0	0	0		
ÖK4	5	5	5	5	0	3	5	0	0	0	0	0	0	0	0	0	0		
ÖK5	5	5	5	5	0	3	5	0	0	0	0	0	0	0	0	0	0		
ÖK6	5	5	5	5	0	3	5	0	0	0	0	0	0	0	0	0	0		
ÖK7	5	5	5	5	0	3	5	0	0	0	0	0	0	0	0	0	0		
			L	-0: L	.earr	ning C	bjec	tives	s P	Q: P	rogra	ım Qu	alifica	tions	5	1			

Contrib ution	1 very low	2 low	3 Medium	4 High	5 Very High
Level:					