STATICS										
1	Course Title:	STATICS	3							
2	Course Code:	MAK1002								
3	Type of Course:	Compulsory								
4	Level of Course:	First Cyc	First Cycle							
5	Year of Study:	1	1							
6	Semester:	2								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	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								
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21	Course Content:									
		Co	ourse 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.) 3.Lesson: Rigid Bodies, Equivalent Force Systems	
6	1.Lesson: Statics of Rigid Bodies 2.Lesson: Equilibriumof Forces Plane System 3.Lesson: Equilibriumof Forces Plane System (cont.)	
7	1.Lesson: Equilibrium of Forces in Space System 2.Lesson: Equilibrium of Forces in Space System (cont.) 3.Lesson: Equilibrium of Forces in Space System (cont.)	
8	Repeating courses and solution examples.	
9	1.Lesson: Introduction to Structural Systems 2.Lesson: Method of joints for structural analyses 3.Lesson: Method of joints for structural analyses (cont.)	
10	1.Lesson: Method of section for structural analyses 2.Lesson: Method of section for structural analyses(cont.) 3.Lesson: Method of section for structural analyses (cont.)	
11	1.Lesson: Frame Systems 2.Lesson: Frame Systems (cont.) 3.Lesson: Frame Systems (cont.)	

12	1.Lesson: Center of gravity and Distriction Loads 2.Lesson: Center of gravity (cont.) 3.Lesson: Center of gravity (cont.)	ibuted					
13	1.Lesson: Moment of inertia 2.Lesson: Moment of inertia (cont.) 3.Lesson: Moment of inertia (cont.)						
14	1.Lesson: Friction 2.Lesson: Friction (cont.) 3.Lesson: Friction (cont.)						
22	Textbooks, References and/or Other Materials:		1. Shelley, J.F., Engineering Mechanics, Statics, McGraw-Hill, 1980 2. Hibbeler, R.C., Statics, Second Edition, Macmillan Publishing Co., Inc., New York, 1978. 3.Ferdinand P. Beer, Russell Johnston, Mühendisler için Mekanik-Statik, Birsen Yayınevi, 2011.				
23	Assesment						
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT				
Midterr	n Exam	1	40.00				
Quiz		0	0.00				
Home v	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				
			Mid-term And Final Exam, The relative evaluation method is applied.				
24	ECTS / WORK LOAD TABLE						

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	2.00	2.00
Others	2	8.00	16.00
Final Exams	1	2.00	2.00
Total Work Load			92.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

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	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	0	3	5	0	0	0	0	0	0	0	0	0	0
ÖK4	5	5	5	0	3	5	0	0	0	0	0	0	0	0	0	0
ÖK5	5	5	5	0	3	5	0	0	0	0	0	0	0	0	0	0
ÖK6	5	5	5	0	3	5	0	0	0	0	0	0	0	0	0	0
ÖK7	5	5	5	0	3	5	0	0	0	0	0	0	0	0	0	0
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Contrib ution Level:	n			3 Medium			4 High			5 Very High						