

Course Details								
Code				Acad	Academic Year			ster
BAU109				1	1		Fall	
Title					Α	L	ECTS	
Statics				3	2	-	6	
Language	German	German						
Level	Undergraduate	\checkmark	Graduate Postgraduate					
Department / Program	Civil Engineering							
Forms of Teaching and Learning	Formal							
Course Type	Compulsory		\checkmark	Ele	ctive			
Objectives	Basic terms and e	quations of me	echanics for st	atic systen	ns.			
Content	The students learn the basic terms and equations of mechanics for static systems. You are made aware of the equilibrium conditions in various systems such as bearings, supporting structures and trusses. They are able to analytically calculate the bearing and reaction forces in a rigid body system. You know the relationships for calculating the cutting loads in a beam. In particular, complicated geometry such as the bent and curved beam is taught, so that the students are able to calculate practical examples. Based on what they have learned, the students are able to familiarize themselves independently with other areas of technical mechanics and to take the aspects of technical mechanics in to account in future projects.							
Prerequisites	-							
Coordinator								
Lecturer(s)								
Assistant(s)								
Work Placement								
Recommended or Required R	eading							
Books / Lecture Notes	 -Wolfgang H. Müller, Ferdinand Ferber, Technische Mechanik für Ingenieure, 4. Auflage, Hanser Verlag / Fachbuch Verlag Leipzig. -Russell C. Hibbeler: Technische Mechanik/2 - Festigkeitslehre 8. Aktualisierte Aufl. München: Pearson Studium 2013 (insges. 3 Bände). -Martin Mayr: Technische Mechanik. Übungs Beispiele und Aufgaben. 2. starkerw. Auflage. München: Hanser 2000. 							
Other Sources								
Additional Course Material								
Documents	-							
Assignments	-							
Exams	-							



Course Composition		
Mathematics und Basic Sciences	100	%
Engineering		%
Engineering Design		%
Social Sciences		%
Educational Sciences		%
Natural Sciences		%
Health Sciences		%
Expert Knowledge		%
Assessment		

Activity	Count	Percentage (%)
Midterm Exam	1	40
Quiz		
Assignments		
Attendance		
Recitations		
Projects		
Final Exam	1	60
	Total	100

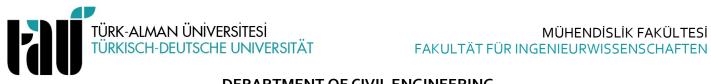
ECTS Points and Work Load

بد:: دم		Count	Duration	Work Load (Hours)			
Activity	У	Count	Duration	Work Load (Hours)			
ectures		14	3	42			
Self-Study		14	3	42			
Assignments							
Presentation / Sen Preparation	ninar						
Midterm Exam		2	10				
Recitations		14	28				
Laboratory							
Projects							
Final Exam		1	2	15			
Total Work Load 137							
ECTS Points(Total Work Load / Hour) 6							
Learning Outcomes							
1	1 The students know the basic relationships of the technical mechanics of the rigid body (statics).						
2	They are familiar with the interdependencies of forces, moments and load transfer in components and are able to carry out static analyzes on structures (bars and beams) themselves.						

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	account in fu	ture projects.					
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10							
11							
12							
WeeklyConten	t						
1							
2							
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15							
Contribution o	f Learning Out	comes to Prog	gram Objective	es(1-5)			
	P1	P2	P3	P4	P5	P6	P7
1	5	4	4				
2	5	4	4				
3	5	4	4				
4	5	4	4				
5	5	4	4				



6							
7							
8							
9							
10							
11							
12							
Contribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High							
Compiled by:	Compiled by:						
Date of Compilat	tion:	16.03.2020					