

Course Details								
Code					Academic Year		Seme	ster
BAU301					3		Fall	
Title				Т	Α	L	ECTS	
Structural Engineering II				4	2	0	6	
Language	German			-				_
Level	Undergraduate	$\checkmark$	√ Graduate			Postgra	aduate	
Department / Program	Civil Engineering							
Forms of Teaching and Learning	Formal							
Course Type	Compulsory		$\checkmark$	E	Elective			
Objectives	The main goal is t the classic materi					and c	onnectio	ons made of
Content	<ul> <li>Stability problems of components under compression (buckling, flexural buckling, torsional flexural buckling and model support methods)</li> <li>Principles of pre-stress</li> <li>Ultimate load capacity of composite steel girders</li> <li>Design of typical steel construction connections (welded and bolted connections)</li> <li>Theory of plate structures, solid cover plates</li> <li>Plates, theory of beam models and their application to complex situations (D areas) such as frame corners, brackets and recesses</li> </ul>							
Prerequisites								
Coordinator								
Lecturer(s)								
Assistant(s)								
Work Placement								
Recommended or Required Reading								
Books / Lecture Notes	Grundlagen der Tragwerklehre, Band 226. September 2011 von Franz Krauss und Wilfried Führer							
Other Sources								
Additional Course Material								
Documents								
Assignments								
Exams								
Course Composition								



Mathematics und Basic Sciences	%
Engineering	%
Engineering Design	%
Social Sciences	%
Educational Sciences	%
Natural Sciences	%
Health Sciences	%
Expert Knowledge	%

#### Assessment

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

## **ECTS Points and Work Load**

1

Activity	Count	Duration	WorkLoad (Hours)	
Lectures	14	6	84	
Self-Study	14	2	28	
Assignments				
Presentation / Seminar Preparation				
Midterm Exam	1	2	10	
Recitations				
Laboratory				
Projects				
Final Exam	1	2	15	
		Total Work Load	137	
	6			
Learning Outcomes				
	ed in the approach of the cross-m ing I, this module continues the b	-		

Engineering I, this module continues the basic knowledge of dimensioning and structural design of components. The students are introduced to more complex design tasks on rod-shaped and flat structural elements and are then able to determine the required cross-sectional dimensions,



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Contribution of	of Learning Out	comes to Prog	ram Objective	es(1-5)			
	P1	P2	P3	P4	P5	P6	P7



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Contribution Level         1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High							
Compiled by:							
Date of Compilation:							