Course Details										
Code					emic Ye	ear	Semester			
BAU454				4	4		Fall			
Title						L	ECTS			
Structural Engineering III					1	1	6			
Language	German	German								
Level	Undergraduate	√	Graduate		F	Postgra	duate			
Department / Program	Civil Engineering									
Forms of Teaching and Learning	Formal									
Course Type	Compulsory			Ele	Elective		✓			
Objectives		This module completes the cross-material teaching of the basics of design and construction that started in modules KI I and KI II.								
Content	 Local failure of steel cross sections (dents) Stability problems mainly due to the bending of stressed components (bending twist) Stability problems of pressure-stressed components (buckling of multi-part rods) Serviceability of solid components, verification of crack widths Fatigue strength, basics and evidence 									
Prerequisites	Desirable requirements for participation in the courses: Structural engineering, I and II Mandatory requirements for registering for module exams: no									
Coordinator										
Lecturer(s)										
Assistant(s)										
Work Placement										
Recommended or Required R	eading									
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	100						%			



Engineering Design		%
Social Sciences		%
Educational Sciences		%
Natural Sciences		%
Health Sciences		%
Expert Knowledge		%
Assessment		
Activity	Count	Percentage (%)
Midterm Exam	2	40
Quiz		
Assignments		
Attendance		
Recitations		
Projects		
Final Exam	1	60
	Total	100

ECTS Points and Work Load							
Activity	Count	Duration	Work Load (Hours)				
Lectures	14	5	70				
Self-Study	13	3	42				
Assignments							
Presentation / Seminar Preparation							
Midterm Exam	2	1	10				
Recitations							
Laboratory							
Projects							
Final Exam	1	2	15				
	137						
	6						

Learning Outc	omes
1	The result is the mastery of further basics of essential topics in constructive engineering. The module is indispensable for all those who want to dedicate themselves to the tasks of "constructive engineering" or who choose the focus on "design and construction" in the master's program.
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Weekly Conter	nt								
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Contribution of Learning Outcomes to Program Objectives (1-5)									
	P1	P2	P3	P4	Р5	P6	P7		
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11							
12							
Contribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High							
Compiled by: Research Assist. Dr. ÖmerFaruk Aydın							
Date of Compilation: 17.03.2020							