

Course Details								
Code				Acade	Academic Year			ster
BAU202				2	2			
Title					Α	L	ECTS	
Structural Analysis I					1	1	6	
Language	German							
Level	Undergraduate √ Graduate Postgradu				duate			
Department / Program	Civil Engineering							
Forms of Teaching and Learning	Formal	mal						
Course Type	Compulsory		✓	Ele	Elective			
Objectives	The students learn typical calculations		_	-	niques of classical statics and use them fo			
Content	Elements for the modeling of beam structures are defined, static and geometrical properties of load-bearing systems are explained, the basic equations for calculation according to first order theory are derived under static influences. To calculate statically determined beam structures, the construction principle, the cutting principle and the working principles of mechanics as methods as well as the principle of virtual path variables and the principle of virtual force quantities are learned and applied. With these methods, students determine the state and influence lines of force and displacement variables as well as deformations of statically determined load-bearing systems.							
Prerequisites								
Coordinator								
Lecturer(s)								
Assistant(s)								
Work Placement								
Recommended or Required R	eading							
Books / Lecture Notes								
Other Sources								
Additional Course Material								
Documents								
Assignments								
Exams								
Course Composition								
Mathematics und Basic Sciences							%	
Engineering							%	



		COURSE SY	LLABUS			
Engineering Desi	ign			%		
Social Sciences				%		
<b>Educational Scie</b>	nces			%		
Natural Sciences	5			%		
Health Sciences				%		
Expert Knowledg	ge			%		
Assessment						
Activ	rity	Cou	Percentage (%)			
Midterm Exam		1		40		
Quiz						
Assignments						
Attendance						
Recitations						
Projects						
Final Exam 1				60		
		100				
ECTS Points and	d Work Load					
Activ	vity	Count	Duration	Work Load (Hours)		
Lectures		14	5	70		
Lectures Self-Study		14 14	5 3	70 42		
Self-Study	eminar					
Self-Study Assignments Presentation / Se	eminar					
Self-Study Assignments Presentation / Self-Study	eminar	14	3	42		
Self-Study Assignments Presentation / Self-Study Midterm Exam	eminar	14	3	42		
Self-Study Assignments Presentation / So Preparation Midterm Exam Recitations	eminar	14	3	42		
Self-Study Assignments Presentation / Soften Self-Study Preparation Midterm Exam Recitations Laboratory	eminar	14	3	42		
Self-Study Assignments Presentation / Soften Self-Study Preparation Midterm Exam Recitations Laboratory Projects	eminar	14	2	10		
Self-Study Assignments Presentation / Soften Self-Study Preparation Midterm Exam Recitations Laboratory Projects	eminar	1	2	10 15		
Self-Study Assignments Presentation / Soften Self-Study Preparation Midterm Exam Recitations Laboratory Projects		1	2 Total Work Load	10 15 137		
Self-Study Assignments Presentation / Self-Study Preparation Midterm Exam Recitations Laboratory Projects Final Exam	omes	1	2  Total Work Load  ints(Total Work Load / Hour)	10 15 137 6 ECTS		
Self-Study Assignments Presentation / Self-Study Preparation / Self-Study Midterm Exam Recitations Laboratory Projects Final Exam	Dmes  Basic principle  Future engine	14  1  ECTS Po es and techniques of classical state ers gain the ability to grasp the b	2  Total Work Load  ints(Total Work Load / Hour)  tic, statically calculates specific pasics of structural behavior, tra	10  15  137  6 ECTS  rod structures. anslate the min to static		
Self-Study Assignments Presentation / Soften Self-Study Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Outcomes	Dmes  Basic principle  Future engine	1  1  ECTS Po	2  Total Work Load  ints(Total Work Load / Hour)  tic, statically calculates specific pasics of structural behavior, tra	10  15  137  6 ECTS  rod structures. anslate the min to static		
Self-Study Assignments Presentation / Soften Self-Study Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Outcomes 1	Dmes  Basic principle  Future engine	14  1  ECTS Po es and techniques of classical state ers gain the ability to grasp the b	2  Total Work Load  ints(Total Work Load / Hour)  tic, statically calculates specific pasics of structural behavior, tra	10  15  137  6 ECTS  rod structures. anslate the min to static		



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Weekly Conten	t						
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Contribution of Learning Outcomes to Program Objectives(1-5)							
Contribution of	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 Compilat	tion:						