

Course Details									
Code				Acad	Academic Year			ster	
BAU463				2-3-4	2-3-4		Fall-Spring		
Title	T A L						ECTS		
Concrete and formwork construc	tion			2	2 3 0 6				
Language	German								
Level	Undergraduate	$\checkmark$	Graduate		F	Postgraduate			
Department / Program	Civil Engineering								
Forms of Teaching and Learning	Formal								
Course Type	Compulsory			Ele	Elective		$\checkmark$		
Objectives	After successfully p execution of comp economic perspecti	lex construc							
Content	Reinforced concrete construction, formwork construction, timing of concrete structures, optimization of the use of formwork, process and cost planning in formwork construction. Process control in concrete and formwork construction (e.g. process and formwork planning with CAD; cycle and resource planning with MS project; cost planning, process optimization, personnel planning and quality assurance								
Prerequisites	Modul BAU352								
Coordinator	Prof. Dr-Ing. Ulrich Neuhof								
Lecturer(s)	Prof. Dr-Ing. Ulrich Neuhof								
Assistant(s)									
Work Placement	no								
Recommended or Required Reading									
Books / Lecture Notes	Skript Prof. Neuhof, Schalungsplanung im Baubetrieb von Malpricht/Rupp								
Other Sources	Unterlagen der Schalungshersteller PERI, Doka, Paschal und Meva								
Additional Course Material									
Documents	Optionally, the international PERI construction company competition can be worked on as a project - after consultation, coordination and approval by the lecturer!								
Assignments									
Exams									
Course Composition									
Mathematics und Basic Sciences	%								
Engineering	100 %								
Engineering Design	%								



Social Sciences			%		
Educational Sciences		%			
Natural Sciences		%			
Health Sciences		%			
Expert Knowledge		%			
Assessment					
Activity	Cou	nt	Percentage (%)		
Midterm Exam					
Quiz					
Assignments					
Attendance					
Recitations					
Projects	1		60		
Final Exam	Presentation projec	t with colloquium	40		
	,	Total	100		
ECTS Points and Work Load					
Activity	Activity Count Duration		Work Load (Hours)		
Lectures	14	2	28		
Self-Study	14	3	42		
Self-Study Assignments	14	3	42		
Assignments Presentation / Seminar					
Assignments Presentation / Seminar Preparation	14	3 12	42 12		
Assignments Presentation / Seminar Preparation Midterm Exam	1	12	12		
Assignments Presentation / Seminar Preparation Midterm Exam Recitations					
Assignments Presentation / Seminar Preparation Midterm Exam Recitations Laboratory	1 1 14	12 3	12 42		
Assignments Presentation / Seminar Preparation Midterm Exam Recitations Laboratory Projects	1	12	12		
Assignments Presentation / Seminar Preparation Midterm Exam Recitations Laboratory	1 1 14	12 3 8	12 42 56		
Assignments Presentation / Seminar Preparation Midterm Exam Recitations Laboratory Projects	1 14 7	12 3 8 Total Work Load	12 42 56 <b>180</b>		
Assignments Presentation / Seminar Preparation Midterm Exam Recitations Laboratory Projects Final Exam	1 14 7	12 3 8	12 42 56		
Assignments Presentation / Seminar Preparation Midterm Exam Recitations Laboratory Projects Final Exam Learning Outcomes	1 14 7	12 3 8 Total Work Load	12 42 56 <b>180</b>		
Assignments Presentation / Seminar Preparation Midterm Exam Recitations Laboratory Projects Final Exam Learning Outcomes 1	1 14 7	12 3 8 Total Work Load	12 42 56 <b>180</b>		
Assignments Presentation / Seminar Preparation Midterm Exam Recitations Laboratory Projects Final Exam Learning Outcomes	1 14 7	12 3 8 Total Work Load	12 42 56 <b>180</b>		
Assignments Presentation / Seminar Preparation Midterm Exam Recitations Laboratory Projects Final Exam Learning Outcomes 1	1 14 7	12 3 8 Total Work Load	12 42 56 <b>180</b>		
Assignments Presentation / Seminar Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Outcomes 1 2	1 14 7	12 3 8 Total Work Load	12 42 56 <b>180</b>		



6								
7								
8								
9								
10								
11								
12								
Weekly Conten	t							
1	Formwork co	nstruction ba	sics					
2	Cycles in con	crete and form	nwork construc	ction Part 1 Flo	or slabs and w	alls		
3	Cycles in con	crete and form	nwork construc	ction Part 2 Ce	ilings			
4	Cycle plannin	g with MS pro	pject and cost p	lanning				
5	Planning the	concrete insta	allation includir	ng logistics				
6	Process and formwork planning with CAD							
7	Project examples							
8	Project processing (Midterm Exam)							
9	Project processing							
10	Project processing							
11	Project processing							
12	Project processing							
13	Project processing							
14	Project submission and preparation of the presentation							
15	Presentation and colloquium							
Contribution of Learning Outcomes to Program Objectives(1-5)								
	P1	P2	P3	P4	P5	P6	P7	
1								
2								
3								
4								
5								
6								
7								
8								
9								



10							
11							
12							
Contribution Lev	rel	1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High					
https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=en&curSunit=5728							
Compiled by:		Prof. DrIng. Ulrich Neuhof					
Date of Compilat	tion:	19.04.2024					