

Course Details									
Code				Acad	Academic Year			Semester	
BAU452				4	4		Fall		
Title					Α	L	ECTS		
Basics of Urban Water Management					1	-	6		
Language	German								
Level	Undergraduate	✓	<b>√</b> Graduate			Postgra	duate		
Department / Program	Civil Engineering								
Forms of Teaching and Learning	Formal	Formal							
Course Type	Compulsory					Elective		✓	
Objectives	The courses impart of water management		undations and	simple pra	ictical a	pplicat	ions in s	everal areas	
Content	Hydraulic engineering: hydrology, river engineering, dams, hydropower plants, hydraulic engineering, coastal engineering Engineering hydrology: water cycle and household, precipitation, evaporation, infiltration, groundwater, runoff, basics of river basin modeling, runoff formation models, system hydrology, unit gait processes, translation and retention models, watercourse models, physically based hydrological models, agricultural hydraulic engineering Water management projects, interaction of urban water management, hydrological and hydraulic engineering aspects								
Prerequisites	"Fluid Mechanics"								
Coordinator									
Lecturer(s)									
Assistant(s)									
Work Placement									
Recommended or Required R	eading								
Books / Lecture Notes	"Hydraulik für Bauingenieure: Grundlagen und Anwendungen", Robert Freimann								
Other Sources									
Additional Course Material									
Documents									
Assignments									
Exams									
Course Composition									
Mathematics und Basic Sciences						%			
Engineering		100					%		



		DEPARTMENT OF CI	VIL ENGINEERING		
Engineering Desi	ign			%	
Social Sciences				%	
Educational Scie	nces			%	
Natural Sciences	i			%	
Health Sciences			%		
Expert Knowledge %					
Assessment					
Activ	ity	Cou	Percentage (%)		
Midterm Exam		2		40	
Quiz					
Assignments					
Attendance					
Recitations					
Projects					
Final Exam		1	60		
		100			
ECTS Points and	d Work Load				
Activ	ity	Count	Duration	Work Load (Hours)	
Lectures		14	3	42	
I					
Self-Study		14	2	28	
		14	2	28	
Self-Study	eminar	14	2	28	
Self-Study Assignments Presentation / Se	eminar	2	1	28 5	
Self-Study Assignments Presentation / So	eminar				
Self-Study Assignments Presentation / So Preparation Midterm Exam	eminar				
Self-Study Assignments Presentation / Soften Preparation Midterm Exam Recitations	eminar				
Self-Study Assignments Presentation / Soft Preparation Midterm Exam Recitations Laboratory	eminar				
Self-Study Assignments Presentation / Soft Preparation Midterm Exam Recitations Laboratory Projects	eminar	2	1	5	
Self-Study Assignments Presentation / Soft Preparation Midterm Exam Recitations Laboratory Projects	eminar	1	2	10	
Self-Study Assignments Presentation / Soft Preparation Midterm Exam Recitations Laboratory Projects		1	1 2 Total Work Load	10 <b>85</b>	
Self-Study Assignments Presentation / Soften Preparation Midterm Exam Recitations Laboratory Projects Final Exam	o <b>mes</b> Hydraulic engi	2  1  ECTS Point in the aulic engineering systems	2 Total Work Load nts (Total Work Load / Hour)	10 85 4 calculation and dimensioning	
Self-Study Assignments Presentation / Soft Preparation Midterm Exam Recitations Laboratory Projects Final Exam	omes  Hydraulic engi of simple hydr Engineering hy measurement	2  1  ECTS Points neering: scientific basics and the	2 Total Work Load  nts (Total Work Load / Hour)  eir application in the planning, of the planning of the plann	10 85 4 calculation and dimensioning ne planning, calculation and oles of applications from the	
Self-Study Assignments Presentation / Soft Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Outcome	omes  Hydraulic engi of simple hydr Engineering hy measurement	1  ECTS Point in the aulic engineering systems ydrology: scientific foundations a of simple hydrological systems i	2 Total Work Load  nts (Total Work Load / Hour)  eir application in the planning, of the planning of the plann	10 85 4 calculation and dimensioning ne planning, calculation and oles of applications from the	



5							
6							
7							
8							
9							
10							
11							
12							
Weekly Conten	it						
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
Contribution of	f Learning Outo	comes to Prog	ram Objective	s (1-5)			
	P1	P2	Р3	P4	P5	P6	P7
1							
2							
3							
4							
5							
6							
7							
8							
9							



10							
11							
12							
Contribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High							
Camanilad b							
Compiled by:							
Date of Compilat	tion:	17.03.2020					