

DEPARTMENT OF CIVIL ENGINEERING

Course Details									
Code				Acad	Academic Year			Semester	
BAU 206					2		Spring		
Title				т	Α	L	ECTS		
Building Materials and Chemistry	Chemistry II 0 1 2								
Language	German	erman							
Level	Undergraduate	\checkmark	Graduate		F	Postgra	duate		
Department / Program	Civil Engineering								
Forms of Teaching and Learning	Formal								
Course Type	Compulsory				Elective		\checkmark		
Objectives	 -Knowledge of the chemical-physical structure of the building materials, their properties and their use in buildings. -Ability to critically select building materials and evaluate compatibility of building materials 								
Content	 Principles of corrosion Corrosion and corrosion protection of building metals Concrete Exposure Classes Durability of concrete Special concretes Non-destructive test methods Maintenance and repair of buildings Bitumen and bituminous building materials Glass and ceramics 								
Prerequisites	BAU201								
Coordinator									
Lecturer(s)									
Assistant(s)									
Work Placement	None								
Recommended or Required R	eading								
Books / Lecture Notes	Bauchemie: Einführung in die ChemiefürBauingenieure und Architekten19. August 2015 von Roland Benedix								
Other Sources	-								
Additional Course Material									
Documents	-								
Assignments	-								
Exams	-								
Course Composition									



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Mathematics un Sciences	d Basic		%			
Engineering		30	%			
Engineering Des	ign	20	%			
Social Sciences			%			
Educational Scie	nces		%			
Natural Sciences	5	20	%			
Health Sciences			%			
Expert Knowled	ge	30	%			
Assessment						
Activ	Activity Count			Percentage (%)		
Midterm Exam		1		40		
Quiz						
Assignments	ts					
Attendance						
Recitations						
Projects	ts					
Final Exam		1	60			
			Total	100		
ECTS Points an	d Work Load					
Activ	vity	Count	Duration	Work Load (Hours)		
Lectures		14	2	28		
Self-Study						
Assignments						
Presentation / Seminar Preparation						
Midterm Exam		1	1	1		
Midterm Exam Recitations		1	1	1		
		1	1	1		
Recitations		1	1	1		
Recitations Laboratory		1	1 2	1		
Recitations Laboratory Projects						
Recitations Laboratory Projects		1	2	2		
Recitations Laboratory Projects Final Exam		1	2 Total Work Load	2 31		
Recitations Laboratory Projects	omes The Building N can demonstra are familiar wi and bitumen.	1	2 Total Work Load nts (Total Work Load / Hour) on the Building Materials and I een corrosion of metals and mi teristic properties of building m	2 31 2 Building Chemicals I. Students neral building materials and aterials such as glass, ceramics		



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3		e functional principle and the applicability of various destructive and non-destructive test methods are eoretically mastered as well as the basics for the maintenance and repair of structures.						
Weekly Conter	nt							
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
Contribution o	f Learning Out	comes to Prog	ram Objective	s (1-5)				
	P1	P2	P3	P4	P5	P6	P7	
1	5	4	4					
2	5	4	4					
3	5	4	4					
4	5	4	4					
5	5	4	4					
Contribution Lev	Contribution Level1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High							
Compiled by:								
Date of Compila	tion:							