

DEPARTMENT OF CIVIL ENGINEERING
COURSE SYLLABUS

Course Details				
Code	Academic Year			Semester
BAU252	2			Spring
Title	T	A	L	ECTS
Building Physics	3	1	1	6
Language	German			
Level	Undergraduate	✓	Graduate	Postgraduate
Department / Program	Civil Engineering			
Forms of Teaching and Learning	Formel			
Course Type	Compulsory		Elective	✓
Objectives	Students learn a basic understanding of physical processes of a building.			
Content	<ul style="list-style-type: none"> - Winter thermal protection - Summer heat protection - Energy balancing - Types of moisture transport - Condensation protection - Basics of structural noise protection 			
Prerequisites	None			
Coordinator				
Lecturer(s)				
Assistant(s)				
Work Placement	None			
Recommended or Required Reading				
Books / Lecture Notes	Lehrbuch der Bauphysik: Schall - Wärme - Feuchte - Licht - Brand - Klima1. September 2017 von Wolfgang M. Willems und Peter Häupl			
Other Sources				
Additional Course Material				
Documents	-			
Assignments	-			
Exams	-			
Course Composition				
Mathematics und Basic Sciences				%
Engineering				%
Engineering Design				%

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Social Sciences			%
Educational Sciences			%
Natural Sciences			%
Health Sciences			%
Expert Knowledge			%
Assessment			
Activity	Count		Percentage (%)
Midterm Exam	1		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	2	28
Self-Study	14	5	70
Assignments	1	5	5
Presentation / Seminar Preparation			
Midterm Exam	1	3	3
Recitations	14	1	14
Laboratory	14	1	14
Projects			
Final Exam	1	3	3
		Total Work Load	137
		ECTS Points (Total Work Load / Hour)	6
Learning Outcomes			
1	Students acquire the basics of heat, moisture and sound transport as well as fire protection.		
2	They can apply the acquired knowledge of building physics to basic buildings.		
3	Students are able to develop construction details correctly in terms of building physics.		
Weekly Content			
1			
2			

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3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

Contribution of Learning Outcomes to Program Objectives (1-5)

	P1	P2	P3	P4	P5	P6	P7
1							
2							
3							
4							
5							

Contribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High

Compiled by:

Date of Compilation: