

DEPARTMENT OF CIVIL ENGINEERING  
COURSE SYLLABUS

Course Details				
<b>Code</b>	<b>Academic Year</b>			<b>Semester</b>
BAU453	4			1-2
<b>Title</b>	<b>T</b>	<b>A</b>	<b>L</b>	<b>ECTS</b>
Calculation for 3D Civil Engineering Application	1	2	2	6
<b>Language</b>	German			
<b>Level</b>	<b>Undergraduate</b>	✓	<b>Graduate</b>	<b>Postgraduate</b>
<b>Department / Program</b>	Civil Engineering			
<b>Forms of Teaching and Learning</b>	Formal			
<b>Course Type</b>	<b>Compulsory</b>		<b>Elective</b>	✓
<b>Objectives</b>	The aim of the course is to develop the students' ability to model 3D thinking and applications in civil engineering			
<b>Content</b>	Create 3D design Creation of soil models with computer programs One-dimensional models Two-dimensional models Three-dimensional models			
<b>Prerequisites</b>				
<b>Coordinator</b>				
<b>Lecturer(s)</b>				
<b>Assistant(s)</b>				
<b>Work Placement</b>				
Recommended or Required Reading				
<b>Books / Lecture Notes</b>				
<b>Other Sources</b>				
Additional Course Material				
<b>Documents</b>				
<b>Assignments</b>				
<b>Exams</b>				
Course Composition				
<b>Mathematics und Basic Sciences</b>				%
<b>Engineering</b>				%
<b>Engineering Design</b>				%
<b>Social Sciences</b>				%

DEPARTMENT OF CIVIL ENGINEERING  
COURSE SYLLABUS

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
<b>Total</b>		<b>100</b>

**ECTS Points and Work Load**

Activity	Count	Duration	Work Load (Hours)
Lectures	14	5	70
Self-Study	14	3	42
Assignments			
Presentation / Seminar Preparation			
Midterm Exam	1	2	10
Recitations			
Laboratory			
Projects			
Final Exam	1	2	15
<b>Total Work Load</b>			<b>137</b>
<b>ECTS Points (Total Work Load / Hour)</b>			<b>6 ECTS</b>

**Learning Outcomes**

1	The students can model two and three dimensions.
2	Students can use finite element programs.
3	
4	
5	
6	
7	

DEPARTMENT OF CIVIL ENGINEERING  
COURSE SYLLABUS

8	
9	
10	
11	
12	

**WeeklyContent**

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

**Contribution of Learning Outcomesto Program Objectives (1-5)**

	P1	P2	P3	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



DEPARTMENT OF CIVIL ENGINEERING  
COURSE SYLLABUS

Compiled by:	
Date of Compilation:	