

Course Details										
Code				Academic Year			Semester			
BAU456				4			Fall			
Title				т	Α	L	ECTS			
Construction Management II				3	1	1	6			
Language	German									
Level	Undergraduate 🗸 Graduate			Postgrad			duate			
Department / Program	Civil Engineering									
Forms of Teaching and Learning	Formal									
Course Type	Compulsory					Elective			<b>√</b>	
Objectives	Understanding the basics of construction management and overseeing the project lifecycle as well as the corresponding phases. Comprehending and applying the fundamental principles of project management, including the use of resource planning methods, CPM, PERT, project crashing, and EVA for evaluating project progression.									
Content										
Prerequisites	"Construction Mar	nagement I"								
•		5								



Coordinator						
Lecturer(s)	DrEng. Taylan Terzioğlu					
Assistant(s)						
Work Placement						
Recommended or Required F	Reading					
Books / Lecture Notes	Grundlagen der Baubetriebslehre Bd. 1-3; Fritz Berner, Bernd Kochendörfer, Rainer Schach, Teubner					
Other Sources						
Additional Course Material						
Documents						
Assignments						
Exams						
Course Composition						
Mathematics und Basic Sciences	25	%				
Engineering	25	%				
Engineering Design			%			
Social Sciences			%			
Educational Sciences		%				
Natural Sciences			%			
Health Sciences		%				
Expert Knowledge	50	%				
Assessment						
Activity	Cou	Percentage (%)				
Midterm Exam	1	35				
Quiz						
Assignments						
Attendance	1	5				
Recitations						
Projects	1	20				
Final Exam	1	40				
		Total	100			
ECTS Points and Work Load						
Activity	Count	Duration	Work Load (Hours)			
Lectures	14	+/- 4	60			
Self-Study	14	60				
Assignments	0	0				



Presentation / So Preparation	eminar	0	0	0		
Midterm Exam		1	1,5	1,5		
Recitations	14 +/- 2 30					
Laboratory	0 0 0					
Projects	0 0 0					
Final Exam	1 3,5 3,5					
	Total Work Load 155					
		ECTS Poi	nts (Total Work Load / Hour)	6		
Learning Outco	omes					
1	Fundamentals	of the Construction Economy ar	nd the Construction Industry			
2	Project Partici	pants and Project Life Cycle				
3	Introduction to	o Project Management				
4	Knowledge Areas in Project Management					
5	Project Management in Construction and Construction Management					
6	Project Delivery Methods					
7	Construction Contracting Methods					
8	Introduction to Scheduling					
9	Development of a Network Model					
10 Scheduling Technique: Critical Path Method (CPM)						
11	11 Scheduling Technique: Performance Evaluation & Review Technique (PERT)					
12	Project Crashing					
13 Resource Management in Construction						
14	Earned Value Analysis (EVA)					
15	The role of Formwork Systems in the Construction Industry					
16 Selection Criteria for Formwork Systems in Construction Projects						
Weekly Content						
1Part 1a: Basics of Construction Economics and IndustryPart 1b: Project Participants and Project Chronology						
2	Part 2a: Introduction to Project Management					
	Part 2b: Knowledge Areas in Project Management Part 3a: Project Management in Construction and Construction Management					
3	3 Part 3b: Project Delivery Methods					
4	Part 4a: Construction Contracting Models Part 4b: Project Scheduling					
5	Part 5a: Development of a Network Model Part 5b: Scheduling Technique: Critical Path Method (CPM)					
	Part 5b: Scheduling Technique: Critical Path Method (CPM)					

R

6	Part 6: Scheo	Part 6: Scheduling Technique: Critical Path Method (CPM)-Applied Examples						
7	Part 7a:Performance Evaluation & Review Technique (PERT)Part 7b:Performance Evaluation & Review Technique (PERT)- Applied Examples							
8	Midterm exam – 90 Min. (Written)							
9	Part 9: Proje	Part 9: Project Crashing						
10	Part 10: Cras	hing – Applied Ex	amples					
11		Part 11a: Resource Management Part 11b: Resource Management - Applied Examples						
12	Part 12a: Earned Value Analysis (EVA) Part 12b: Earned Value Analysis (EVA) - Applied Examples							
13	Part 13a: The	Part 13a: The Role of Formwork Systems in the Construction Industry						
14		Part 13b: Selection Criteria for Formwork Systems in Construction Projects Final Exam Preparation						
15	Final Examination (FE) – 210 Min. (Written)							
Contribution of Learning Outcomes to Program Objectives (1-5)								
	P1	P2	P3	P4	P5	P6	P7	
1	3	2	4	5	5	4	5	
2	3	2	5	5	5	5	5	
3	3	2	5	5	5	5	4	
4	3	2	4	5	5	4	5	
5	3	2	4	4	4	4	4	
6	3	2	5	5	5	5	5	
7	3	2	4	4	4	4	4	
8	3	2	5	5	5	5	5	
9	3	2	5	5	4	5	5	
10	3	2	5	4	5	5	4	
11	3	2	5	5	5	5	5	
12	3	2	5	5	5	5	5	
13	3	2	4	4	4	4	4	
14	3	2	5	5	5	5	5	
15	3	2	5	4	4	5	4	
16	3	2	5	5	4	5	4	
Contribution Lev	Contribution Level1: 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:	DrEng. Taylan Terzioğlu							
Date of Compila	ate of Compilation: 19.09.2023							