



COURSE INFORMATION FORM

Course Name	Course Code
CONSTRUCTION MANAGEMENT	151417659

Semester	Number of Course Hours per Week		ECTS
	Theory	Practice	
7	3	0	4

Course Category (Credit)				
Basic Sciences	Engineering Sciences	Design	General Education	Social
	4			

Course Language	Course Level	Course Type
Turkish	Undergraduate	Compulsory

Prerequisite(s) if any	
Objectives of the Course	To have knowledge about Turkish Building Legislation and its applications, to have knowledge and skills in construction technologies, planning techniques and building cost analysis
Short Course Content	Preparatory works for construction, (land selection, procurement, investment program, project preparation, license), pre-contract works (approximate cost preparation, preparation of regulations, tender methods, announcement, conditions, tender commissions, tender execution, penalties), contract execution, first actions after contract execution, transactions during the contract period (organization control regulation, introduction of documents, advances, progress payments, assignment, contract amendments and additions, sanctions and disputes), final transactions in the contract (provisional acceptance, final acceptance, final account and return of security, liquidation, termination), construction investments, creation of work programs, creation of approximate construction costs

Learning Outcomes of the Course	Contributed PO(s)	Teaching Methods *	Measuring Methods **
1 To have the ability to plan and implement construction projects	PO1, PO2, PO5, PO10	1,5,6	A
2 To have the ability of tender applications in construction works	PO1, PO2, PO8, PO10	1,5	A
3 To have knowledge about building approximate cost calculation methods, to be able to make applications	PO1, PO2, PO4, PO5, PO10	1,5,6	A
4 To have knowledge about preparing bids for tenders	PO1, PO2, PO5, PO10	1,5,6	A
5 To have knowledge about construction contract types and details	PO1, PO2, PO5, PO10	1,5	A
6			
7			
8			

*Teaching Methods 1:Expression, 2:Discussion, 3:Experiment, 4:Simulation, 5:Question-Answer, 6:Tutorial, 7:Observation, 8:Case Study, 9:Technical Visit, 10:Trouble/Problem Solving, 11:Individual Work, 12:Team/Group Work, 13:Brain Storm, 14:Project Design / Management, 15:Report Preparation and/or Presentation

**Measuring Methods A:Exam, B:Quiz, C:Oral Exam, D:Homework, E:Report, F:Article Examination, G:Presentation, I:Experimental Skill, J:Project Observation, K:Class Attendance; L:Jury Exam

Main Textbook	“Lecture Notes” are available. All books and lecture notes for Project Management, Construction Management, Construction Management, Construction Management, Quantity Surveying, Risk and Risk Management are the main source.
Supporting References	All other books, lecture notes, directives, regulations, by-laws, specifications, printed and written legislation related to construction works and construction technicians for all other construction, management, supervision, organization and project control are valid.
Necessary Course Material	Laptop, Data show (data projection devices), fixed or movable white screen, blackboard for written applications.

Course Schedule	
1	The Place and Importance of Construction Management in Civil Engineering
2	Basic Concepts of Planning and Planning Techniques (ÇUBUK-CPM)
3	Planning Techniques (PERT- BOX)
4	Reinforced Concrete Building Quantity Surveying
5	Reinforced Concrete Building Quantity Surveying
6	Construction Preparation and Preliminary Works
7	Public Procurement Law No. 4734, Public Procurement Contracts Law No. 4735
8	Mid-Term Exam
9	Regulation on Implementation of Construction Tenders
10	General Specifications for Construction Works
11	Determination and Use of Unit Prices
12	Price Difference Applications
13	Approximate cost and progress payments in construction works, books and other documents kept at the construction site
14	Construction Contracts and Management
15	International Construction Contracts (FIDIC)
16,17	Final Exam

Calculation of Course Workload			
Activities	Number	Time (Hour)	Total Workload (Hour)
Course Time (number of course hours per week)	14	3	42
Classroom Studying Time (review, reinforcing, prestudy,...)	14	2	28
Homework	1	0	0
Quiz Exam	1	0	0
Studying for Quiz Exam	1	0	0
Oral exam	1	0	0
Studying for Oral Exam	1	0	0
Report (Preparation and presentation time included)	1	0	0
Project (Preparation and presentation time included)	1	0	0
Presentation (Preparation time included)	1	0	0
Mid-Term Exam	1	2	2
Studying for Mid-Term Exam	1	20	20
Final Exam	1	2	2
Studying for Final Exam	1	20	20
Total workload			114
Total workload / 30			3,8
Course ECTS Credit			4

Evaluation	
Activity Type	%
Mid-term	50
Quiz	
Homework	
Bir öge seçin.	
Bir öge seçin.	
Final Exam	50
Total	100

RELATIONSHIP BETWEEN THE COURSE LEARNING OUTCOMES AND THE PROGRAM OUTCOMES (PO) (5: Very high, 4: High, 3: Middle, 2: Low, 1: Very low)		
NO	PROGRAM OUTCOME	Contribution
1	PO-1: Adequate knowledge of mathematics, science and basic engineering; Ability to apply theoretical and applied knowledge in these fields to model and solve engineering problems	5
2	PO-2: Skills in identifying, defining, formulating, and solving complex engineering problems in civil engineering and related fields by selecting and applying appropriate analysis and	5
3	PO-3: The ability to design a complex system, device or product in line with a determined goal, under realistic constraints and conditions, by applying modern design methods.	3
4	PO-4: Ability to develop, select and use modern techniques and tools required for Civil Engineering applications and to effectively benefit from information technologies.	4
5	PO-5: Ability to design experiments, conduct experiments, collect data, analyze and interpret results for the study of Civil Engineering problems.	4
6	PO-6: Ability to do interdisciplinary and interdisciplinary team work	4
7	PO-7: Ability to communicate effectively in Turkish verbally and in writing and the ability to use/improve foreign language knowledge.	2
8	PO-8: Awareness of the necessity of lifelong learning; the ability to access information, follow developments in science and technology and constantly renew oneself	3
9	PO-9: Awareness of professional and ethical responsibility	5
10	PO-10: Knowledge of project management and business practices such as risk management and change management; awareness about entrepreneurship, innovation and sustainable	5
11	PO-11: Information about the effects of engineering practices on health, environment and safety at universal and societal dimensions; Awareness of national and international legal	4

LECTUTER(S)				
Prepared by	Assist. Prof. Dr. Osman AYTEKİN	Assist. Prof. Dr. Hakan KUŞAN	Assist. Prof. Dr. Gülçağ ALBAYRAK	
Signature(s)				

Date:06.06.2024