

School of Fine Arts Design and Architecture / Architecture (English)

2023 - 2024 Academic Year

CONSTRUCTION MANAGEMENT

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
CONSTRUCTION MANAGEMENT	ARC2159010	Fall Semester	2+0	2	2
Prerequisites Courses					
Recommended Elective Courses	1. Advanced Construction Management 2. Architectural Economics 3. Contractual relations in Construction Management 4. Construction Site Management 5. Draw. Standarts and Tech. Spec. in Const. Proj.				
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Prof.Dr. Ayşe Zeynep SÖZEN				
Name of Lecturer(s)	Prof.Dr. Ayşe Zeynep SÖZEN				
Assistant(s)	Res. Assist. Zeynep Yazıcıoğlu				
Aim	Teaching basic subjects and concepts of construction management topics.				
Course Content	This course contains; Objectives of the course and the relationship of the course with other disciplines. A general review of the construction sector and construction projects.,Construction management: Basic concepts-Management, Project, efficiency, effectiveness, managerial functions-planning, organizing,directing, control. Management theories. Areas of knowledge in Project Management.,Organizing for construction projects. Stakeholders of construction projects. Procurement systems.,Planning and programming of construction projects.Basic concepts in planning and programming .Relationship between planning and programming. Steps in planning and programming.,Cost planning and control. Management of resources _materials, equipment, labour, money, knowledge.Cost control and capital investment techniques. Cost estimation. Methods of cost estimation at various stages of the construction process. Tools used in cost estimation,Bidding and submitting a tender. Related processes.,Midterm exam,Bidding and submitting a tender. Related processes.,Site management:Technical and organizational infrastructure of construction sites.Responsibilities of Project stakeholders.,Monitoring and controlling of projects. Monitoring of progress and schedules. Documentation and site meetings.,Health and safety in construction.Work accidents and occupational diseases.,Closing of the construction Project. Post construction evaluation and relations between the Project stakeholders.,General evaluation.,Final exam.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1.Describes the functions of construction managers and Project managers.			10, 13, 16, 6, 9	A	
2.Creates a schedule for a simple construction Project.			10, 13, 16, 6, 9	A	
3. Creates a cost estimate for a simple construction Project.			10, 13, 16, 6, 9	A	
4. Distinguishes between types of specifications (design v. performance).			10, 13, 16, 6, 9	A	
5. Applies basic project cost and time performance techniques (Eraned Value Analysis)			10, 13, 16, 6, 9	A	
6. Associates project delivery systems and pricing arrangements with project risk.			10, 13, 16, 6, 9	A	
Teaching Methods	10: Discussion Method, 13: Case Study Method, 16: Question - Answer Technique, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Objectives of the course and the relationship of the course with other disciplines. A general review of the construction sector and construction projects.				
2	Construction management: Basic concepts-Management, Project, efficiency, effectiveness, managerial functions-planning, organizing,directing, control. Management theories. Areas of knowledge in Project Management.				
3	Organizing for construction projects. Stakeholders of construction projects. Procurement systems.				
4	Planning and programming of construction projects.Basic concepts in planning and programming .Relationship between planning and programming. Steps in planning and programming.				
5	Cost planning and control. Management of resources _materials, equipment, labour, money, knowledge.Cost control and capital investment techniques. Cost estimation. Methods of cost estimation at various stages of the construction process. Tools used in cost estimation				
6	Bidding and submitting a tender. Related processes.				
7	Midterm exam				
8	Bidding and submitting a tender. Related processes.				
9	Site management:Technical and organizational infrastructure of construction sites.Responsibilities of Project stakeholders.				
10	Monitoring and controlling of projects. Monitoring of progress and schedules. Documentation and site meetings.				
11	Health and safety in construction.Work accidents and occupational diseases.				
12	Closing of the construction Project. Post construction evaluation and relations between the Project stakeholders.				
13	General evaluation.				
14	Final exam				
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources

To be distributed by the lecturer. Frank Harris, Ronald McCaffer with Francis Edum-Fotwe, Modern Construction Management, 7th Edition, 2013, Wiley-Blackwell. S. Keoki Sears, Glenn A. Sears, Richard H. Clough, Construction Project Management: A Practical Guide to Field Construction Management, 2008, Wiley. Juana Clark Craig, Project Management Lite: Just Enough to Get the Job Done...Nothing More, 2012. Alison Dykstra, Construction Project Management: A Complete Introduction, Kirshner, 2011. Y.C. Chiu, An Introduction to the History of Project Management: From the Earliest Times to A.D. 1900, Eburon. Paul Segal, Professional Practice: A Guide to Turning Designs into Buildings, Norton, 2006.