

Vocational School / Construction Technology

2024 - 2025 Academic Year

CONSTRUCTION METEGARE and COST

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
CONSTRUCTION METEGARE and COST	İNŞ2176950	Fall Semester	3+0	3	3
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Lect. Fatma Bengü YOĞURTÇU				
Name of Lecturer(s)	Lect. Fatma Bengü YOĞURTÇU				
Assistant(s)					
Aim	With this course, it is aimed to teach the student the necessary information for the stages of quantity surveying and exploration through the construction project and manufacturing as a result of the application.				
Course Content	This course contains; Introduction of course , explaining the condition of the succes for the course, emerging the expectations of the students for construction industry through the interactive ways,Theory part; The levels of a construction Project life cycle with their scopes,Theory part; Definition, objective, importance of tender management , evaluation of a sample construction contract and master work Schedule,Theory part; Introduction to cost management(CM) , basic principles of CM and Case studies,Theory part; Introduce the correlation between design and cost through case studies ,Theory part; Introduce cost estimation models in the literature and frequently applied techniques in construction industry through case studies ,Theory part; Definition, objective, importance of procurement and value management, applying a value management technique through a sample Project data.,Bill Of Quantity (BOQ) calculations,Application part ; Preparation of a Bill Of Quantity (BOQ) table without numeric data regarding to a construction Project (Each student will take part in the workshop) ,Application part ; Preparation of a Bill Of Quantity (BOQ) table with numeric data regarding to a construction Project (Each student will take part in the workshop and will measure the quantity from the project),Application part ; Preparation of a Bill Of Quantity (BOQ) table with numeric data regarding to a construction Project (Each student will take part in the workshop and will measure the quantity from the project),Application part ; Preparation of a Bill Of Quantity (BOQ) table with numeric data regarding to a construction Project (Each student will take part in the workshop and will measure the quantity from the project),Application part ; Each student will achieve market prices from local companies for estimated cost. ,Application part ; Each student will emerge an estimated cost budget by using their calculated quantities and market prices .				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Understand the importance of cost and budget management as the industry evaluates processes with a focus on cost.			10, 16, 19, 6, 9	A, E	
Will be able to calculate unit price types and unit prices.			10, 16, 19, 6, 9	A, E	
Will be able to distinguish between the types of tenders used in new construction and the types of tenders used in construction projects.			10, 16, 19, 6, 9	A, E	
Know the provisional and final acceptance procedures and what to do in case of deficiencies or defects.			10, 16, 2, 9	A, E	
Will be able to explain the concepts of quantity and discovery.			10, 16, 2, 6, 9	A, E	
Will be able to prepare progress payments for a project by hand or in a progress payment program using green book and attachment book information.			10, 16, 2, 6, 9	A, E	
Teaching Methods	10: Discussion Method, 16: Question - Answer Technique, 19: Brainstorming Technique, 2: Project Based Learning Model, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Introduction of course , explaining the condition of the succes for the course, emerging the expectations of the students for construction industry through the interactive ways				
2	Theory part; The levels of a construction Project life cycle with their scopes				
3	Theory part; Definition, objective, importance of tender management , evaluation of a sample construction contract and master work Schedule				
4	Theory part; Introduction to cost management(CM) , basic principles of CM and Case studies				
5	Theory part; Introduce the correlation between design and cost through case studies				
6	Theory part; Introduce cost estimation models in the literature and frequently applied techniques in construction industry through case studies				
7	Theory part; Definition, objective, importance of procurement and value management, applying a value management technique through a sample Project data.				
8	Bill Of Quantity (BOQ) calculations				
9	Application part ; Preparation of a Bill Of Quantity (BOQ) table without numeric data regarding to a construction Project (Each student will take part in the workshop)				
10	Application part ; Preparation of a Bill Of Quantity (BOQ) table with numeric data regarding to a construction Project (Each student will take part in the workshop and will measure the quantity from the project)				
11	Application part ; Preparation of a Bill Of Quantity (BOQ) table with numeric data regarding to a construction Project (Each student will take part in the workshop and will measure the quantity from the project)				
12	Application part ; Preparation of a Bill Of Quantity (BOQ) table with numeric data regarding to a construction Project (Each student will take part in the workshop and will measure the quantity from the project)				
13	Application part ; Each student will achieve market prices from local companies for estimated cost.				

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Lecture Schedule		
Sequenc e	Topics	Preliminary Preparation
14	Application part ; Each student will emerge an estimated cost budget by using their calculated quantities and market prices	
Evaluation Methods		Weight(%)
Midterm Exam		40
General Exam		60

Resources
Mazlum Birecikli, Yapı Metraji Ve Maliyeti, Birsen Yayınevi, 2017Lecture presentations