Course Description Form

1. Course Name:	
Method of Construction and Estimation	
2. Course Code:	
WCV-42-08	
3. Semester / Year:	
Second semester /2024-2025	
4. Description Preparation Date:	
23 / 9 / 2024	
5. Available Attendance Forms:	
Students that are interested in learning	
6. Number of Credit Hours (Total) / Number of Units (Total)	
3 hours per week / number of units (2 units)	
7. Course administrator's name (mention all, if more than one name)	
Name: assist lecturer Ghadeer Haitham Hassan mailto:ghadeer.haitham@uowa.edu.iq	
8. Course Objectives	
Course Objectives	1. Understanding of cost and its types. 2. Illustrating funding requirements. 3. Understand construction phases and project life cycle. 4. Learning planning sciences in construction industry. 5. Familiarize students to basic concepts of construction equipment's productivity. 6. To understand resource allocation and how pre-plan labor requirements scheduling. 7. To prepare construction projects' Bill of quantities. 8. Definition general conditions for works of civil engineering.
9. Teaching and Learning Strategies	
Strategy	1. Providing a comprehensive introduction to each study topic and connecting the current topic to previous ones . 2. Delivering theoretical lectures 3. Presenting short scientific films . 4. Providing and explaining sufficient examples.

	5. Conducting experiments in the road laboratory. 6. Using brainstorming to convey the material

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2 2-6 6-10 10-15 15-20 20-25 25-30	6 24 24 30 30 30 30		Introduction Construction equipment The cost of owning and operating construction equipment Engineering fundamentals Earth work equipment Soil stabilization and compaction Equipment for production and transportation of concrete Forms for concrete structures Calculation of construction materials quantity Quantities of construction materials Calculation of the steel reinforcement quantity in concrete Bill of quantities, and calculating of construction works	1. Providing a comprehensive introduction to each study topic and connecting the current topic to previous ones . 2. Delivering theoretical lectures . 3. Presenting short scientific films . 4. Providing and explaining sufficient examples .	1. Participation within the classroom. 2. Short written tests. 3. Discussion and dialogue with students . 4. Assigning homework at the end of each topic. 5. Presenting posters about some road problems and their solutions . 6. Attendance . 7. Monthly written exams. 8. Final semester exam.

10. Course Evaluation

1. Participation within the classroom 2%. 2. Short written tests 3%. 3. Assigning homework at the end of each topic 5%. 4. Attendance 5%. 5. Monthly written exams 35%. 6. Final semester exam 50%.

11. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Guessing - Medhat Fadil - University of Baghdad Construction Planning, Equipment , and Methods (L. Peurifoy) Estimating in Building Construction (J. Peterson and R. Dagostion) Estimating and tendering for construction work (Martin Brook)
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	