

Course Description Form

1. Course Name:	
Method of Construction and Estimation	
2. Course Code:	
WCV-42-08	
3. Semester / Year:	
2026-2025	
4. Description Preparation Date:	
19/1/2026	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hrs. (theoretical)	
7. Course administrator's name (mention all, if more than one name)	
Name: Ali Abdul Zahra Email: ali.had@uowa.edu.iq	
8. Course Objectives	
Course Objectives	- Understand the different types of fluid flow. - Differentiate between the governing equations of flow and their applications. - Understand the difference between the statics and dynamics of fluids. - Understand the differences of fluid pressure and its measurements, - Calculate the forces exerted by fluid motion.
9. Teaching and Learning Strategies	
Strategy	Strategies that be adopted to deliver the module is by encourage students' participation to accomplish the exercises. Also, refining and expanding critical thinking skills for the students. This will be achieved through classes, interactive tutorials, and considering type of simple experiments involving some sampling activities that interest the students.

10. Course Structure

Week	Hou rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	1. Punctuality. 2. Pay attention to the lecturer during class and write down the information provided. 3. To be calm and respectful during classes and answer questions in a scientific manner. To understand the importance of fluid mechanics and the impact of the subject on his future career in this field.	1. Introduction	1 Giving the lecture, answering students' questions, and discussing with the students aspects that are not clear to them. 2. Data Show lectures and illustrations Practical tests and experiments using laboratory equipment 3. Multimedia Use of the education system Electronic	1. Initial evaluation adopting the method of participation in the lecture 2. Continuous evaluation by conducting a set of exams with multiple options 3. Diagnostic evaluation through conducting scheduled tests at specific times and assigning students to perform specialized projects. 4. Final evaluation
2-3	6		2. Construction equipment		
4-6	12		3. The cost of owning and operating construction equipment		
7-8	18		Engineering fundamentals 4. Earth work equipment		
9-12	21		5. Soil stabilization and compaction		
13-14	24		6. Equipment for production and transportation of concrete		
15	27		7. Forms for concrete structures		
16-17	30		8. Calculation of construction materials quantity		
18-21	33		9. Quantities of construction materials		
22-23	36		10. Calculation of the steel reinforcement quantity concrete		
24-25	39		11. Bill of quantities, and calculating of construction works		

11. Course Evaluation

1. Oral examination during daily lessons.
2. Joins discussions during lectures.
3. Monthly checks.
4. Mid-year exams.
5. Final years exams.

12. Learning and Teaching Resources

Guessing - Medhat Fadil - University of Baghdad

Prescribed books required (textbook)

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
	Web sites and electronic references.


 أ.م.د. قاسم علي حسين
 رئيس قسم الهندسة المدنية

 علي عبد الزهره هادي


