

1. Course Name:	
Fluid Mechanics- I	
2. Course Code:	
CIV21204	
3. Semester / Year:	
semester	
4. Description Preparation Date:	
2/12/2025	
5. Available Attendance Forms:	
weekly theory 2hours/practically 2 hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theory 30 hours Practically 30 hours Total 60 hours	
7. Course administrator's name (mention all, if more than one name)	
Name. Rusul noori abbas/Email.rusul.noori@muc.edu.iq	
8. Course Objectives	
Course Objectives	1. Providing the student with the necessary skills and mechanisms to deal with the latest developments in scientific and technical progress in their field of specialization. 2. Special care for outstanding students and enabling them to put forward their ideas. 3. Providing the student with high skill and ability to solve problems and teamwork. 4. - Instilling the spirit of diligence and perseverance encouraging them to create and innovate
9. Teaching and Learning Strategies	
Strategy	Establishing a friendly dialogue that includes the brotherly and fatherly spirit to demonstrate the importance of developing general skills Guiding students to different learning outlets Encouraging students to be positive, insist on success, and strive to seize opportunities Providing students with some electronic and printed resources in the field of developing general skills Assisting students in communicating with their alumni predecessors through attendance gatherings or on social networking sites
1. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Imperial and metric system	Units	theoretical	Several ways *Exams Assignments
2	3	Fluid density	Fluid properties	theoretical	Several ways *Exams

					Assignments
3	3	Surface tension in fluid	Fluid properties	theoretical	Several ways *Exams Assignments
4	3	Fluid viscosity	Fluid properties	theoretical	Several ways *Exams Assignments
5	3	Pressure and head	Fluid statics	theoretical	Several ways *Exams Assignments
6	3	Manometers	Fluid statics	theoretical	Several ways *Exams Assignments
7	3	Manometers	Fluid statics	theoretical	Several ways *Exams Assignments
8	3	Buoyancy	Fluid statics	theoretical	Several ways *Exams Assignments
9	3	Forces on submerged surface	Fluid statics	theoretical	Several ways *Exams Assignments
10	3	Hydrostatic Force on Plan and curved Surfaces	Fluid statics	theoretical	Several ways *Exams Assignments
11	3	Continuity equation	Fluid dynamics	theoretical	Several ways *Exams Assignments
12	3	Continuity (mass conservation)	Fluid dynamics	theoretical	Several ways *Exams Assignments
13	3	Bernoulli equation	Fluid dynamics	theoretical	Several ways *Exams Assignments
14	3	Bernoulli equation	Fluid dynamics	theoretical	Several ways *Exams Assignments
15	3	Flow in closed conduit	Fluid dynamics	theoretical	Several ways *Exams Assignments

2. Course Evaluation

3. Learning and Teaching Resources

Required textbooks (curricular books any)	fluid Mechanics , by Victor L. Streeter & Benjamin Wylie SI Metric Edition , McGraw – Hill , 1988
Main references (sources)	Fundamentals of Fluid Mechanics, 7th Ed., by Munson, Young, and Okiishi, Wiley 2009

Recommended books and references (scientific journals, reports...)	Fluid Mechanics with Engineering Application , By Robert Daugherty , Joseph B. Franzini & E. John Finnemore , edition , McGraw Hill, 1985
Electronic References, Websites	Available

Course Description Form