

Warith Al-Anbiya University / College of Engineering / Department of Civil Engineering
Course Description

Course Name .1	
Engineering Mechanics	
Course code .2	
CIV024	
Second semester - First year	
Date this description was prepared .3	
2-1-2026	
Available forms of attendance .4	
My presence	
Number of study hours (total) / Number of units (total) .5	
200 hours / 7 ECTS units	
Name of the course coordinator (if more than one name is mentioned) .6	
salim.hashim@uowa.edu.iq Dr. Salem Hussein Al-Mousawi abdah.hussin@uowa.edu.iq Dr. Abda Hussein	
Course objectives .7	
1. Understanding the basic geometric properties of shapes. 2. Analyzing truss structures. 3. Finding the centers of gravity of lines, areas, and volumes. 4. Finding the moment of inertia of shapes. 5. Understanding friction problems. 6. Applying principles to problem-solving.	
Teaching and learning strategy .8	
Encouraging student participation in interactive exercises and lectures, with a	

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focus on honing critical thinking skills through educational lessons, practical examples, and simple experiments.

Course structure .9

Evaluation Method	Learning method	Unit or topic name	Required learning outcomes	Hours	Week
Classroom tests	a lecture	Entrance to the trusses	LO #1	3	1
Tests	Lecture + Lesson	Truss analysis	LO #1	3	2
Tests	Lecture + Lesson	Examples of trusses	LO #1	3	3
Tests	a lecture	friction	LO #1	3	4
Tests	Lecture + Lesson	Examples of friction	LO #1	3	5
Tests	a lecture	Center of gravity of lines	LO #2,3	3	6

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Midterm	a test	Mid-term + centrality	LO #2,3	3	7
Tests	Lecture + Lesson	Centrality of composite forms	LO #2,3	3	8
Tests	a lecture	The determination of the palaces - singular	LO #4	3	9
Tests	Lecture + Lesson	Examples of moments of inertia	LO #4	3	10
Tests	Lecture + Lesson	Inertia - Vehicle	LO #4	3	11
Tests	Lecture + Lesson	Examples of moments of inertia - vehicle	LO #4	3	12
Tests	a lecture	product of moment of inertia	LO #5	3	13
Tests	Lecture + Lesson	Examples of multiplication	LO #5	3	14

Tests

Quizzes: 10% | Assignments: 10% | Projects: 10% | Reports: 10% | Midterm Exam: 10% |
 Final Exam: 50%

Learning and teaching resources .10

Required textbooks

Engineering Mechanics:
 Statics - Hibbeler, Russell

Elementary Theory of
 Structures - Yuan-Yu Hsieh
 Structural Analysis -

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	Andrew Pytel & Jaan Kiusalaas
	Engineering journals and scientific magazines specializing in engineering mechanics

