Republic of Iraq

Ministry of Higher Education and Scientific Research Supervision and Scientific Evaluation Apparatus

University: Shatt Al-Arab University
College: College of Engineering
Department: Civil Engineering

Stage: 1st stage

Lecturer name: Feras Abbas Lefta

Academic title: Assist. Lecturer

Course Weekly Outline

Name	Feras Abbas Lefta
E-mail address	feras.abbass@sa-uc.edu.iq
Course name	Engineering Mechanics -2-
Course objective	1. To introduce the basic principles of forces and motions and how they affect objects. 2. To develop the ability to solve engineering problems using basic concepts of mechanics. 3. To introduce the basic concepts of structural analysis and design of structural elements. 4. To improve the ability to think critically and analytically. 5. To train students to use modern tools and techniques in solving engineering problems.
Course description	1- To understand the general principles of engineering mechanics. 2- To understand and solve engineering problems.
References	1. Hibbeler R. C., Engineering Mechanics, Statics, 14th ed, 2015 2. M. E. Plesha, Engineering Mechanics Statics, 1st ed, 2010 3. A. Bedford, Engineering Mechanics Statics, 5th ed, 2008
External sources	1. Hibbeler R. C., Engineering Mechanics, Statics, 14th ed, 2015 2. M. E. Plesha, Engineering Mechanics Statics, 1st ed, 2010 3. A. Bedford, Engineering Mechanics Statics, 5th ed, 2008

Course assessment	Homework	Project	Quizzes and assessment	Mid-term exam	Final exam
	10	**10**	**20**	**10**	**50**

General notes	

Course Weekly Outline

Week No.	Theoretical	Experimental	Aims
1	Friction		This module covers a wide range of engineering mechanics topics in order to provide the basic knowledge and foundations applicable to various civil engineering problems, such as Newton's laws and basic conservation (mass, momentum and energy), friction, centre of gravity and moment of inertia.
2	Friction		
3	Friction		
4	Friction		
5	Friction		
6	Friction		
7	Centroid		
8	Centroid		
9	Centroid		
10	Centroid		
11	Centroid		
12	Moment of Inertia		
13	Moment of Inertia		
14	Moment of Inertia		
15	Moment of Inertia		