Date:	Examination No.:	Version: 6/1/2024	Start: 7/1/2024
Module Name - Code	Engineering mechanics-1 - 1106		
Module Language:	English		
Responsible:			
Lecture (s):	Dr. Zrar Sedeeq Othman and M. Shvan		
College:	College of Engineering – Salahaddin University-Erbil		
Duration:	15 week – 1 semester		
Course outcomes:	After learning this course, the student should have the ability to: 1. Solve for the resultants of any force systems. 2. Determine equivalent force systems. 3. Solve the problems associated with the equilibrium of particles and the equilibrium of rigid bodies. 4- Analyze the simple trusses.		
Course Content:	Week Lecture <table><tr><td>1st</td><td>Introduction and fundamental concepts, and Composition and Resolution of forces</td></tr><tr><td>2nd</td><td>Resultant of Force system, Collinear, Concurrent Coplanar</td></tr><tr><td>3rd</td><td>Concurrent, Non-coplanar Force System</td></tr><tr><td>4th</td><td>Non-Concurrent, Non-parallel Coplanar Force System</td></tr><tr><td>5th</td><td>Moment of a couple</td></tr><tr><td>6th</td><td>Parallel Coplanar and Parallel, Non-coplanar Force System</td></tr><tr><td>7th</td><td>Midterm Exam</td></tr><tr><td>8th</td><td>Distributed Load</td></tr><tr><td>9th</td><td>Equilibrium of Particle-1</td></tr><tr><td>10th</td><td>Equilibrium of Particle-2</td></tr><tr><td>11th</td><td>Equilibrium of rigid bodies-1</td></tr><tr><td>12th</td><td>Equilibrium of rigid bodies-1</td></tr><tr><td>13th</td><td>Trusses-1</td></tr><tr><td>14th</td><td>Trusses-2</td></tr><tr><td>15th</td><td>Final Exam</td></tr></table>		
Literature:	1. R.C. Hibbeler, "Engineering Mechanics, Statics", 15th edition in SI units, 2023,Pearson Education Limited.London 2. J.L. Meriam, L.G. Kraige, "Engineering Mechanics, Statics", 6th edition, 2006.		
Type of Teaching:	3 hrs theory and 1 hr tutorial		
Pre-requisites:			
Frequency:	Yearly in fall and spring semester		
Requirements for credit points:	For the award of credit points, it is necessary to pass the module exam. The module exam is theoretical: [Written 120 min] **Student's attendance is required in all classes**.		
Credit point:	5		
Grade Distribution:	The Grade is generated from the examination result(s) with the following 10% activity 10% quizzes 20% mid-term exam 60% final Exam		
Work load:	The workload is 135 hrs. It is the result of 60 hrs. attendance and 75 hrs. self-studies.		