زانکۆی پۆلیتەکنیکی هەولێر
ERBIL POLYTECHNIC UNIVERSITY

Module (Course Syllabus) Catalogue

2022-2023

College/ Institute	Technology college
Department	Automotive Technology Engineering
Module Name	Mechanics
Module Code	MEC205
Degree	Technical Diploma ☐ Bachelor ☐ High Diploma ☐ Master ☐ PhD ☐
Semester	two
Qualification	
Scientific Title	
ECTS (Credits)	3
Module type	Prerequisite ☐ Core ☐ Assist. ☐
Weekly hours	

Weekly hours (Theory)	(2)hr Class	(27)Total hrs Workload
Weekly hours (Practical)	( )hr Class	( )Total hrs Workload

Number of Weeks	12
Lecturer (Theory)	Prof.Dr.Basim Mohammed Fadhil
E-Mail & Mobile NO.	basim.fadhil@epu.edu.iq
Lecturer (Practical)	
E-Mail & Mobile NO.	
Websites	

Course Book

Course Description	This is course is mathematics which involves :1-statics: introduction ,force system, couple, moment , resultant, equilibrium, 2-Dynamics: introduction, rectilinear motion
Course objectives	Upon completion of this course, students will be able to: Understand the basic rules about mechanics in both branches statics and dynamics topics including: force system, couple, moment, resultant, equilibrium, and rectilinear motion.
Student's obligation	The student's obligations are: 1-attending the lectures in the class and online, 2-doing homework, 3- doing assignments and quizzes.4- doing examinations.
Required Learning Materials	

Evaluation	Task		Weight (Marks)	Due Week	Relevant Learning Outcome
	Paper Review				
	Assignments	Homework	10%	3,6	
		Class Activity	2%		
		Report	8%	6	
		Seminar	8%	9	
		Essay			
		Project			
	Quiz		8%	5,8	
	Lab.				
	Midterm Exam		24%		
	Final Exam		40%		
	Total		100%		

Specific learning outcome:	
Course References:	**1- Engineering mechanics: statics**

R.C.Hibbeler **2- Engineering mechanics: statics** **J. L. Meriam,L. G. Kraige** **3-- Engineering mechanics: dynamics** **J. L. Meriam,L. G. Kraige**		

Course topics (Theory)	Week	Learning Outcome
Introduction to engineering mechanics: statics: force system,force	1	
moment	2	
couple	3,4	
Resultant	5,6	
Equilibrium	7,8	
Dynamics: Rectilinear Kinematics: Continuous Motion	9,10	
General Curvilinear Motion	11,12	

Practical Topics	Week	Learning Outcome

Questions Example Design

Extra notes:

External Evaluator