Module Language: English Module Language: English Responsible: Ms. Shivan Jawdat Lecture (s): Ms. Shivan Jawdat College: College of Engineering – Salahaddin University Duration: 15 week 2-** genester Course outcomes: Understand the fundamentals of statics and dynamics. Be proficient in using Statics and Dynamics to obtain solutions to engineering problems. Know the value of engineering mechanics. Relate the fundamentals of Statics and Dynamics to practical applications. Develop documentation skills and correct professional technique. Develop "engineers' eyes" so this course provides the following outcomes: Apply Mathematics Identify engineering problems Course Content: Chapter one: Basic concepts & Resultants of force systems Week 1 - Introduction, course outline, Scalar and vector quantities. Forces, composition and resolution of a force into a force and a couple. Week 3 - Introduction, course outline, Scalar and vector quantities. Forces, tomposition and resolution of a force system and resultant of a concurrent coplanar force system, Resultant of a non-concurrent coplanar force system and resultant of a concurrent coplanar force system, Resultant of a non-concurrent coplanar force system and resultant of a couples in space. Chapter Three : Second moment of inertia Week 8 - The conter of gravity of a system of particles Week 8 - The conter	Date:	Examination No.: 15367	Version:1/9/2019	Start: 22/2/2021	
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Week14:- Laws of friction and Coefficient of friction		Week 13:- Introduction, Nature of Interion Week14:- Laws of friction and Coefficient of friction			

	Week15: -Types of problems involving frictional forces, friction of V-belts, Frictional moments on thrust bearings and dis clutches.		
Literature:	Engineering Mechanic's, Static and Dynamic by Archie Higden		
	• Engineering Mechanic's, Static and Dynamic by Singer		
	Engineering Mechanic's, Static and Dynamic by Meriam And Kraige		
	Mechanic for Static's and Dynamic by Johnson		
	Engineering Mechanic's, Static and Dynamics by Schaum's		
Type of Teaching:	3 hrs. in lectures. 1 hr. in the tutorial.		
Pre-requisites:	None		
Frequency:	Yearly in Spring semester		
Requirements for	For the award of credit points it is necessary to pass the module exam.		
credit points:	The module exam contains:		
	- Homework and quizzes, mid-term exam, and final exam.		
	Student attendance is required in all classes.		
Credit point:	5		
Grade Distribution:	The Grade is generated from the examination result(s) with the following		
	weights (w):		
	Final exam: 60%		
	Homework, quizzes, and other activities: 20%		
	Mid-Term exam: 20%		
Work load:	The workload is 150hr. It is the result of 60hr attendance and 90hr self-studies.		