Republic of Iraq The Ministry Of Higher Education & Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Engineering
Department: Chemical

Stage: First

Lecturer name: Khalid Al-Dolaimy

Qualification: M. Sc.

Place of work: Diyala University

Flow up of syllabus implementation

Course Instructor	Khalid Ahmed Al-Dolaimy				
E-mail	K.dolaimy@gmail.com				
Title	Static and Strength of Materials				
Course Coordinator	Annually				
Course Objective	To teach the student the fundamentals of statics; Principles of Force, Force Distribution, Reactions, and it's effect on the Mechanical Systems and Structures, leading for better designs within safety limits.				
Course Description	Static: Introduction to statics science, force and force analysis, couples, equilibrium, moments, friction, center of Mass, center of gravity, moment of inertia. Strength of Materials: Strength of materials definition, simple stress, shear stress, stress in cylinder, simple strain, thermal stress, deformation in beams, equation of stress and moment in beams, curves of stress and moment in beams				
Textbook	1- SI Version, J. L. Meriam, L.G. Kraige, Engineering Mechanics, Volume 1, John Wiley and Sons Inc. 100 Y- Ferdinand L. Singer, Andrew Pytel, Strength of Materials, HRPER & ROW Publisher, New York, 1940				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	(*·%)	-	(١٠٪)	-	(٦٠%)
General Notes					

Republic of Iraq The Ministry Of Higher Education & Scientific Research



University: Diyala

College: Engineering College

Department: Chimical Engineering

Stage: First

Lecturer name: Khalid Ahmed

Qualification: M. Sc./Production Eng.

Place of work: Engineering College

Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes		
١	17-11-4.15, 19-11-4.15	Introduction, Vectors	Related Ex. & Assignments			
۲	77-11-7.18, 77-11-7.18	Force, Force analysis,	=			
٣	W11-7.18, W-17-7.18	Force in ^r D	=			
٤	V-17-7.18, 117-7.18	Moment	=			
٥	18-17-7.18, 14-17-7.18	Couples	=			
٦	71-17-7.18, 78-17-7.18	Equilibrium	=			
٧	7A-17-7·18, 71-17-7·18	Monthly Exam, and Friction	=			
٨	٤-1-٢٠١٥, ٧-١-٢٠١٥	Friction - atilt surfaces	=			
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١.						
11						
١٢						
١٣						
١٤						
10						
١٦						
Half – year break						
١٧	10-7-7.10, 11-7-7.10	Center of mass & gravity	Related Ex. & Assignments			
١٨	77-7-7.10, 70-7-7.10	Centroid-Center of area	=			
19	1-4-1.10, 5-4-1.10	Moment of inertia	=			
۲.	٨-٣-٢٠١٥, ١١-٣-٢٠١٥	Strength of materials Def., Simple stress	=			
۲۱	10-4-110, 11-4-110	Shear stress, Stress in cylinder	=			
77	77-4-7.10, 70-4-7.10	Simple strain,	=			
77	79-T-10, 1-E-7.10	Stresses in composite material	=			
۲ ٤	0-2-7.10, 1-2-7.10	Shear strain	=			
70	19-8-4.10, 47-8-4.10	Monthly exam /Thermal stress	=			
۲٦	77-8-7.10, 79-8-7.10	Forces on beams & Reactions	=			
7 7	T-0-7.10, 7-0-7.10	Shear force & Bending moment diagrams	=			
۲۸	10_7.10,15-0_7.10	Equation of Stress and Moment in beams	=			
۲٩	14-0-4.10, 40-4.10	Curves of stress and Moment in beams	f stress and Moment in beams =			
٣.	75-0-7.10, 77-0-7.10	Deformation- Simply supported beams	=			

TI TI-0-7.10, T-7-7.10 Deformation /one side supported beams	=
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INSTRUCTOR Signature:

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