

The University of Jordan School of Engineering Industrial Engineering Department Spring semester 2023/2024

Course name:	Engineering Statistics II					
Course code:	0906356					
Credits hours	3					
Contact hours& room\office hours:						
Course instructor's name, E-mail, and phone:	Lamees Durgham					
	1.aldurgham@ju.edu.jo					
	22942					
Course Coordinator:						
Text book:	Applied Statistics and Probability for Engineers, by D. Montgomery and G. Runger, 6 th edition, Wiley.					
Other reference(s):						
Course Description:	Analysis of Variance, linear regression, full and fractional factorial design					
	of experiments.					
Providing Department:	Industrial Engineering					
Prerequisite Course:	Engineering Statistics I (0936251)					
Course type	Mandatory					
		Method	Weight %	Date	;	
Assessment Methods:	Midterm		30 %			
Tissessment Wethous.	Quizzes and project 30 %					
	Final Exam 40 %					
	#	After succe	essful completion of this	~ ~		
			student will be able to	SO		
		·				
	CLO1		nderstanding of confidence			
		intervals and hypothesis testing for single				
Course Learning Outcomes:		and two samples.				
	CLO2	Recognize and conduct statistical 1, 6				
		inference for single and two samples to				
		solve engineering problems.				
	GY 0.5	Perform line		1		
	CLO3	regression analyses.				
		_	bility to design and analysis	1, 6		
	CLO4	of single-factor		1, 0		
		or single-ractor	experiments.			
	CLO5	Damastat	alailia. 4a da daalaa C	1.6		
			ability to do design of	1, 6		
		experiments w	ith several factors.			
Brief list of topics No	Торіс					

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		1	Introduction				
2		2	Review of Statistical Intervals for a Single Sample, and Tests of				
			Hypotheses for a Single Sample				
		3	Statistical Inference for Two Samples				
		4	Simple Linear Regression				
		5	Multiple Linear Regression				
		6	Analysis of Variance (ANOVA)				
		7	Design of Experiments with several factors				
• You • Study mate • Disc • Don resu or a "F" • All e poli (F) i that • Study be n • Any enco arra		 You are required to bring a notebook and take notes in classes. Students are expected to attend every class session and they are responsible for all material, announcements, schedule changes, etc., discussed in class. Discuss the assignments among yourselves Don't Cheat; direct copying of others work will NOT be allowed or tolerated and will result in a reduction of grade. If you are found to be cheating in any way, on an exam or assignment, even signing the roll sheet for another student, you will be given an "F" for the course. There will be no exceptions. All cases of academic dishonesty will be handled in accordance with university policies and regulations. JU policy requires the faculty member to assign ZERO grade 					
		that are be no made and arranger ial Engineerial	a student misses 15% of the classes that are not excused, and 20% of the classes e excused atts are expected to be ready to take a quiz any time they have a class. There will make-up quizzes or homeworks. Underts with disabilities who need accommodations in this course are raged to speak with the instructor as soon as possible to make appropriate ements for these accommodations. The program enables students to achieve, by the time of graduation the following the (SOs)				
1	an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics						
2	an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors						
3	an ability to communicate effectively with a range of audiences						
4	an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts						
5	an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives						
6	an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions						
7	an ability to acquire and apply new knowledge as needed, using appropriate learning strategies						

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