

The University of Jordan School of Engineering Industrial Engineering Department 1st semester 2022/2023

Course name:	Engineering Statistics II					
Course code:	0906356					
Credits hours	3					
Contact hours& room\office hours:	11:30-1:00 Monday, Wednesday					
Course instructor's name, E-	Lamees Al-Durgham					
mail, and phone:	l.aldurgham@ju.edu.jo					
Course Coordinator:	Lamees Al-Durgham					
Text book:	Applied Statistics and Probability for Engineers, by D. Montgomery and G. Runger, 7 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					
Assessment Methods:	Method		Weight %	Date	:	
	Midterm Exam		30 %			
	Quizzes and project		20 %			
	Final Exam		50 %	-		
Course Learning Outcomes:	#	After succe course, the	SO			
	CLO1	Demonstrate u intervals and h and two sampl				
	CLO2	Recognize inference for solve engineer	1,6			
	CLO3	Perform linear and multiple linear regression analyses.		1		
	CLO4	Demonstrate al of single-facto	1,6			
	CLO5	Demonstrate experiments w	1,6			

1 Introduction 2 Review of Statistical Intervals for a Single Sample, and Tests of Hypotheses for a Single Sample Brief list of topics 3 Statistical Inference for Two Samples					
Hypotheses for a Single Sample Brief list of topics 3 Statistical Inference for Two Samples					
Brief list of topics 3 Statistical Inference for Two Samples	Review of Statistical Intervals for a Single Sample, and Tests of				
Brief list of topics 3 Statistical Inference for Two Samples	C 1				
4 Simple Linear Regression	Simple Linear Regression				
5 Multiple Linear Regression	Multiple Linear Regression				
6 Analysis of Variance (ANOVA)					
7 Design of Experiments with several factors					
Do not hesitate to ask questions					
• You are required to bring a notebook and take notes in classes.					
· · ·	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 tolera	ted and will				
result in a reduction of grade. If you are found to be cheating in any way, on an e					
	ment, even signing the roll sheet for another student, you will be given an				
Important Notes: "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 2	•				
(F) if a student misses 15% of the classes that are not excused, and 20% of					
that are excused					
	Students are expected to be ready to take a quiz any time they have a class. There will				
 be no make-up quizzes or homeworks. Any students with disabilities who need accommodations in this course are 					
					-
	arrangements for these accommodations.				
The B.Sc. in industrial Engineering program enables students to achieve, by the time of graduation the following					
program learning outcome (SOs)					
an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering,					
1 science, and mathematics					
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					
<i>3 an ability to communicate effectively with a range of audiences</i>					
an ability to recognize ethical and professional responsibilities in engineering situations and make informed					
<i>judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societa</i>					
contexts					
an ability to function effectively on a team whose members together provide leadership, create a collaborative and					
5 inclusive environment, establish goals, plan tasks, and meet objectives					
an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions					
m ability to acquire and apply new browledge as used at using summing to be a single of the					
7 an ability to acquire and apply new knowledge as needed, using appropriate learning strategies					