The University of Jordan
School of Engineering
Industrial Engineering Department
2nd Semester 2020/2021

Course name:	**Measurements lab**			
Course code:	0906442			
Credits hours	1 credit hours			
Contact hours/room:	Section 1: Sunday (1:30-4:30),Section 2: Monday (1:30-4:30) Section 3: Tuesday (1:30-4:30)			
Course instructor's name, E-mail, and phone:	Eng. Lamees Al-Durgham			
	l.aldurgham@ju.edu.jo			
	22942			
Course Coordinator:	---			
Text book:	Lab manual			
Other reference(s):	None			
Course Description:	Experiments on alignment, angular measurements, diameters, surface roughness, out of roundness, screw, gears, thermocouples and oscilloscope.			
Providing Department:	Industrial Engineering			
Prerequisite Course:	0906441			
Course type	Laboratory			
Assessment Methods:	**Method**	**Weight %**	**Date**	
	Reports + quizzes	**30%**	**Weekly report**	
	Mid Exam	**30%**		
	Final Exam	**40%**		

Course Learning Outcomes:	#	**After successful completion of this course, the student will be able to**	**SO**	
	1	An ability to function effectively on a team through conducting experiment and writing report.	**5**	
	2	An ability to conduct experiment related to linear and angular measurements, strain gauge, autocollimator, threads, and thermometers.	**6**	
	3	Analyze and interpret results, and draw proper conclusions.	**6**	

Brief list of topics	**Week #**	**Topic**
	1	Introduction
	2	Linear measurements
	3	Block gauges
	4	Angular measurements
	5	Thread measurements
		Mid exam
	6	Surface roughness
	7	Autocollimator
	8	Strain gauge
	9	RTD, thermistor, thermocouples.

Important Notes:	• Do not hesitate to ask questions • 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 (F) if a student misses 15% of the classes that are not excused, and 20% of the classes 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 home works. • Any students with disabilities who need accommodations in this course are encouraged to speak with the instructor as soon as possible to make appropriate 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)

1	*an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics*	*6*	*an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions*
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*	*7*	*an ability to acquire and apply new knowledge as needed, using appropriate learning strategies*
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*		