The University of Jordan
School of Engineering
Industrial Engineering Department
2nd Semester 2024/2025

Course name:	Graduation Project I and II				
Course code:	IE0976598 IE0976599				
Credits hours	3				
Contact hours& room\office hours	One hour per week to be set with the instructor				
Course instructor's name, E-mail, and phone:	I.E Faculty members altahat@ju.edu.jo 5355000				
Course Coordinator:	Prof. Mohammad Altahat				
Text book:	NA				
Other reference(s):	Available resources form books and scientific journals				
Course Description:	Preparatory studies of the literature and data collection for the graduation project in a particular area of concentration and under the supervision of one of the faculty members. The course covers directed readings in the literature of industrial engineering, introduction to research methods, meeting discussions dealing with special engineering topics of current interest. Planning, design, manufacturing, quality control, simulation, construction and management of an industrial engineering application or project. Writing a technical report.				
Providing Department:	Industrial Engineering				
Prerequisite Course:	Pass 124 credit hours (IE 0936311)				
Course type	Mandatory				
Assessment Methods:	Method		Weight %		Date
	Graduation project I		Pass or Fail		At the end of semester of registration
	Graduation project II		50		
	Oral Presentation		50		At the end of the following semester
Course Learning Outcomes:	#	After successful completion of this course, the student will be able to		SO	
	CLO1	Work effectively within a team		5	
	CLO2	Structure a working schedule for the project.		1	
	CLO3	Carry out Engineering Design Process		2	
	CLO4	Write a technical report.		3	
	CLO5	Defend the technical report in front of a committee and be able to answer questions asked by the committee members.		3	
	CLO6	Recognize ethical and professional responsibilities and consider the impact of engineering solutions in global, economic, environmental, and societal contexts		4	

Brief list of topics	Week #	Topic
	1-3	Define topic
	4-12	Literature review
	13-14	Define objectives and write proposal

	15-17	Design the approach
	18-26	Data collection, experimentations, and theoretical study
	27-29	Analyze data and draw results and conclusions
	30-31	Writing final GP document and preparation for oral presentation

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	*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
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	*6*	an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
3	an ability to communicate effectively with a range of audiences	*7*	an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.
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		