



**The University of Jordan  
School of Engineering  
Industrial Engineering Department**

Course name:	Manufacturing Process Planning and Design			
Course code:	0906715			
Credits hours	3 hr.			
<b>Contact hours&amp; room\office hours:</b>				
Course instructor's name, E-mail, and phone:				
Course Coordinator:				
Textbook:				
Other reference(s):	•			
Course Description:	This course is designed to enable students to develop multi-disciplinary knowledge, skills and competence required in the design, development, installation, commissioning of advanced manufacturing system. Manufacturing Operations and Machines. Calculation of Time, Power, Force, and Process Parameters for Each Operation. Design of a Manufacturing Process Plan for a Product from Raw Material to Final product. Solving the Layout Problem Based on the Developed Process Plan. Economics of Manufacturing Process Selection. Case Studies.			
Providing Department:	Industrial Engineering			
Prerequisite Course:				
Course type	Elective			
Assessment Methods:	Method		Weight %	Date
	General activities and Quizzes			
	Mid Exam			
	Final Exam			
	#		<b>After successful completion of this course, the student will be able to</b>	
Course Learning Outcomes:				
Important Notes:	a. Do not hesitate to ask questions b. You are required to bring a notebook and take notes in classes. c. Students are expected to attend every class session and they are responsible for all material, announcements, schedule changes, etc., discussed in class. d. Discuss the assignments among yourselves			

	<p>e. 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.</p> <p>f. 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</p> <p>g. Students are expected to be ready to take a quiz any time they have a class. There will be no make-up quizzes or homework.</p> <p>h. 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.</p>
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<p><b><i>The B.Sc. in industrial Engineering program enables students to achieve, by the time of graduation the following program learning outcome (SOs)</i></b></p>	
1	<i>an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics</i>
2	<i>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	<b><i>an ability to communicate effectively with a range of audiences</i></b>
4	<i>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</i>
5	<i>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</i>
6	<b><i>an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions</i></b>
7	<i>an ability to acquire and apply new knowledge as needed, using appropriate learning strategies</i>