



**Jordan University of Science and Technology**  
**Faculty of Engineering**  
**Industrial Engineering Department**

IE468 Manufacturing Processes (2)

Summer Semester 2019-2020

**Course Catalog**

3 Credit Hours. This course is a continuation to Manufacturing Processes I, and introduces more of the manufacturing processes and the equipment used. The course covers the topics of Sheet metal forming, powder-metal Processing, forming and shaping of ceramics and glass, plastics and composite materials, joining of materials, and special processes.

**Text Book**

<b>Title</b>	Manufacturing Engineering and Technology
<b>Author(s)</b>	S. Kalpakjian, Addison Wesley
<b>Edition</b>	7th Edition
<b>Short Name</b>	Text book
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref #1	Manufacturing Engineering and Technology	P. Ostwald, J. Munoz, John Wiley & Sons, 1997	9th Edition	
Ref #2	International Journal of Advanced Manufacturing Technology	IFS (Publications) Ltd.	8th Edition	

**Instructor**

Name	<b>Dr. Omar Bataineh</b>
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Instructor	
Name	Mrs. Maysa Alshraideh
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Class Schedule & Room
<p>Section 1: Lecture Time: Sun, Mon, Tue, Wed : 11:30 - 13:00 Room: منصة الكترونية</p> <p>Section 2: Lecture Time: Sun, Mon, Tue, Wed : 16:00 - 17:30 Room: منصة الكترونية</p>

Prerequisites		
Line Number	Course Name	Prerequisite Type
293660	IE366 Manufacturing Processes (1)	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	Introduction to Manufacturing Processes	From <b>Text book</b>
Weeks 3, 4, 5	Sheet Metal Forming and Press Working	From <b>Text book</b>
Weeks 6, 7, 8	Forming and Shaping of plastics and composite materials	From <b>Text book</b>
Weeks 9, 10, 11	Joining of Materials	From <b>Text book</b>
Weeks 12, 13	Special Processes and Technologies	From <b>Text book</b>

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Analyze material processing and manufacturing systems [1SLO7]	20%	
Understand how to conceptualize and synthesize manufactured parts and manufacturing processes [1SLO7]	40%	
Understand the properties, parameters and selection of manufacturing processes [1SLO7]	40%	

Relationship to Program Student Outcomes (Out of 100%)						
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	SLO7
						100

Evaluation	
Assessment Tool	Weight
First Exam	20%
Second Exam	20%
Group Project	20%
Final Exam	40%

Policy	
attendance	Attendance will be checked at the beginning of each class. University regulations will be strictly followed for students exceeding the maximum number of absences. In addition, 0.5 point will be deducted from the grade of homework for each unexcused absence.
Project	Term projects will be conducted by a group of 3 students. Each group will select a project from a list of projects suggested by the instructor. The team should share and distribute responsibility. The group will submit a professional report and make an oral presentation. Making use of all resources, e.g., patents, journal publications, internet, labs, etc., is encouraged. The report must be typed. Hand-written reports are not accepted. The report should not exceed 10 pages. Late Reports will be penalized.
Student Conduct	It is the responsibility of each student to adhere to the principles of academic integrity. Academic integrity means that a student is honest with him/herself, fellow students, instructors, and the University in matters concerning his or her educational endeavors. Cheating will not be tolerated in this course. University regulations will be pursued and enforced on any cheating student.

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