



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

IE469 Manufacturing Processes Lab

Summer Semester 2022-2023

**Course Catalog**

1 Credit Hours. Sand casting, molding, thermoforming, welding, sheet metal forming, press working, machining, and forming using computer numerical control (CNC) machines

**Text Book**

Title	Manufacturing Processes Lab Manual
Author(s)	Prof. Mohammed Hayajneh
Edition	1st Edition
Short Name	Ref 1
Other Information	

**Instructor**

Name	<b>Prof. Omar Bataineh</b>
Office Location	C5L2
Office Hours	
Email	omarmdb@just.edu.jo

**Class Schedule & Room**

Section 1:  
Lecture Time: Mon, Wed : 13:00 - 16:00  
Room: LAB

**Tentative List of Topics Covered**

Weeks	Topic	References
Week 1	Introduction and safety of Workplace	From <b>Ref 1</b>

Week 2	Metal Casting	From <b>Ref 1</b>
Week 3	Welding	From <b>Ref 1</b>
Week 3	Sheet Metal Forming	From <b>Ref 1</b>
Week 4	Plastics Molding Operations	From <b>Ref 1</b>
Week 4	Metal Machining and Cutting	From <b>Ref 1</b>
Week 5	Wear Testing	From <b>Ref 1</b>
Week 5	CNC Turning	From <b>Ref 1</b>
Week 6	CNC Milling 1	From <b>Ref 1</b>
Week 6	CNC Milling 2	From <b>Ref 1</b>

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
To teach students to analyze material processing and manufacturing systems and to train students to conceptualize and synthesize manufactured parts and manufacturing processes [1SLO1]	70%	
To teach the student to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions [1SLO6]	30%	

Relationship to Program Student Outcomes (Out of 100%)						
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	SLO7
70					30	

Evaluation	
Assessment Tool	Weight
Quizzes	60%
Final Exam	40%

Policy	
Attendance	Attendance will be checked at the beginning of each lab. University regulations will be strictly followed for students exceeding the maximum number of absences. No report to be submitted while absent.

Date Printed: 2023-07-23