



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

IE456 Production Planning And Inventory Control

Summer Semester 2019-2020

Course Catalog

3 Credit Hours. The course covers the concept of value chain with a focus on supply chain analyses, capacity planning, inventory models, and demand forecasting. Additional topics include Material Requirement Planning (MRP) and job shop scheduling.

Text Book

Title	Operations Management: Processes and Value Chains
Author(s)	L. J. Krajewski, L. P. Ritzman, and M. Malhotra
Edition	8th Edition
Short Name	REF #1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
REF #2	Operations Management Contemporary Concepts and Cases	Roger G. Schroeder	5th Edition	

Instructor

Name	Dr. NADER AL THEEB
Office Location	C5-L2
Office Hours	
Email	naaltheeb@just.edu.jo

Class Schedule & Room

Section 1:

Lecture Time: Sun, Mon, Tue, Wed : 10:00 - 11:30

Room: منصة الكترونية

Prerequisites

Line Number	Course Name	Prerequisite Type
293460	IE346 Work Measurement And Analysis	Prerequisite / Pass

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2	Using Operations to Compete	Chapter 1 From REF #1
Weeks 3, 4	Decision Making Models	Supplement A From REF #1
Weeks 4, 5	Developing a Process Strategy	Chapter 3 From REF #1
Weeks 6, 7	Forecasting Demand	Chapter 14 From REF #1
Weeks 8, 9, 10	Managing Inventories	Chapter 9 From REF #1
Week 11	Special Inventory Models	Supplement C From REF #1
Week 12	Planning Capacity and Managing Process Constraints	Chapters 6 and 7 From REF #1
Weeks 13, 14, 15	Planning Sufficient Resources	Chapter 16 From REF #1
Week 16	Planning and Scheduling Operations	Chapter 15 From REF #1

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Design and realize products and services that meet market needs. Design and develop production and management systems that assure quality and maintain efficiency. [80SLO2]	80%	
Demonstrate the ability to seek knowledge, stay updated, and pursue further learning and training. [20SLO4]	20%	

Relationship to Program Student Outcomes (Out of 100%)

SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	SLO7
	80		20			

Evaluation

Assessment Tool	Weight

First Exam	26%
Second Exam	26%
Final Exam	40%
participation	8%

Policy	
Attendance	University policy will be applied
Homeworks	Home-works will be suggested and discussed in lectures, and they will not be graded.

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