



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

IE546 Manufacturing Information Systems - JNQF Level: 7

Second Semester 2024-2025

Course Catalog

3 Credit Hours. The course covers the basics of information engineering methods and techniques, enterprise database concepts and design, website development and internet processing, managerial and technical dimensions of information systems, and Telecommunications Implementation, integration of information technology in supply chain operations, data communications and LANs in manufacturing, and information flow control of networked flexible manufacturing.

Teaching Method: Blended

Text Book

Title	Management information systems: managing the digital firm.
Author(s)	Kenneth C. Laudon, Jane Price Laudon.
Edition	12th Edition
Short Name	Management information systems: managing the digital firm.
Other Information	

Instructor

Name	Dr. Fatima Mgaedeh
Office Location	-
Office Hours	
Email	fzmgadedh@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Sun, Tue : 12:00 - 13:00
Room: CH2107

Prerequisites		
Line Number	Course Name	Prerequisite Type
295411	IE541 Supply Chain Management	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Information Systems in Global Business Today	
Weeks 2, 3	Global E-Business and Collaboration	
Weeks 4, 5	Ethical and Social Issues in Information Systems	
Weeks 6, 7	Foundations of Business Intelligence: DB and Information Management	
Weeks 8, 9	Securing Information Systems	
Week 10	Achieving Operational Excellence and Customer Intimacy: Enterprise Applications.	
Weeks 11, 12, 13	Creating and Modifying Database Tables	
Weeks 14, 15, 16	Using SQL Queries to Insert, Update, Delete, and View Data	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
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 [100SO4] [1L7S3]	100%	

Relationship to Program Student Outcomes (Out of 100%)						
SO1	SO2	SO3	SO4	SO5	SO6	SO7
			100			

Relationship to NQF Outcomes (Out of 100%)
L7S3
100

Evaluation	
Assessment Tool	Weight
Exam I	30%
Exam II	30%
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, which is 20% of the total course's hours. No make-up test will be given without an official university-approved excuse.
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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