The University of Jordan School of Engineering Industrial Engineering Department	الجامعة الاردنية كلية الهندسة والتكنلوجيا قسم الهندسة الصناعية	

Spring
2024/2025

Course name:	Information Systems for Industrial Engineering
Course code:	0906505
Credits hours	3
Contact hours/room:	Mon. and Wend. 17:30- 19:00 (Online) Mon. and Wend. 16:00- 17:30 (Online)
Course instructor's name, E-mail, and phone:	Baha Al haj Hasan, Ph.D. b.alhajhasan@ju.edu.jo
Textbook:	*Introduction to Information Systems*, Patricia Wallace, (2018), 3rd Edition, Pearson.
Other references:	Management Information Systems, Laudon, K. C., Laudon, J. P., (2018), 15th Edition, Pearson
Course Description:	Information systems in industrial enterprises, methods of analysis, information security, maintaining its confidentiality, computer network, and securing communication channels between users. Computers and accessories, operation systems, user empowerment, email, website. Master data management, data processing, and information extraction, as well as how to deal with industrial machines associated with computerized systems. The role of information in reengineering administrative or process, web content management, knowledge management, and transfer, database management system data warehouse. Decision support systems and data exploration.
Providing Department:	Industrial Engineering
Prerequisite Course:	Production Planning and Control (0906421)
Course type	Mandatory

Assessment Methods:	**Method**	**Weight %**	**Date**
	First Exam	30	To be announced
	Second Exam	30	To be announced
	Final Exam	40	To be announced

Course Learning Outcomes:	#	**After successful completion of this course, the student will be able to**	**SO**
	CLO1	Describe the role of information in organizations	**4**
	CLO2	Apply data modeling techniques and diagrams to represent, document, communicate, and analyze situations involving information	**4**
	CLO3	Develop and execute SQL statements for processing a database	**7**
	CLO4	Recognize, discuss, and describe database management systems and applications for engineering	**4**
	CLO5	Describe the importance of MIS in organizations and society	**4,7**

A brief list of topics	**# of Weeks**	**Reading Material**	**Topic**
	1	Chapter 1	What is MIS?
	1	Chapter 2	Information Systems and Business Processes

	1 -2	Chapter 3	Information Systems and Organizations
	1	Chapter 4	Information Systems and Organizational

			Strategy
	1	Chapter 5	Business Intelligence and Decision Making
	2	Chapter 6	Database Processing
Important Notes:	• Class notes, in-class drills, and any handout you receive from the instructor are required as part of the course. • Do not hesitate to ask questions • The student is required to bring a notebook and take notes in classes. • Students are expected to attend every class session, and they are responsible for all material, announcements, schedule changes, etc., discussed in class. • Discuss the assignments (the ungraded assignments) with your classmates. • If the assignment is declared graded, students MUST work on it individually. NO late assignment will be accepted. • Do not Cheat; direct copying of others' work will NOT be allowed or tolerated and will result in a grade reduction. If a student is found cheating in an exam or assignment, even signing the roll sheet for another student, he/she will be given an "F" for the course. There will be no exceptions. • All cases of academic dishonesty will be handled per university policies and regulations. JU policy requires the faculty member to assign a ZERO grade (F) if a student misses 15% of the classes that are not excused and 20% of the classes that are excused • Students are expected to be ready to take a quiz any time they have a class. There will be no make-up quizzes or home works. • Any student with disabilities who needs accommodations in this course is encouraged to speak with the instructor as soon as possible to make appropriate arrangements for these accommodations.		

The B.Sc. in Industrial Engineering program enables students to achieve, by the time of graduation, the following program learning outcome (SOs)			
1	*An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics*	*5*	*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*
2	*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*	*6*	*An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions*
3	*An ability to communicate effectively with a range of audiences*	*7*	*An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.*
4	*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*		