

Course Syllabus

1.	Course title	Information Systems
2.	Course number	1902753
3.	Credit hours (theory, practical)	Three Credit Hours (Theory)
	Contact hours (theory, practical)	Three Credit Hours (Theory)
4.	Prerequisites/corequisites	None
5.	Program title	Computer Information Systems
6.	Year of study and semester (s)	Fall- 2019/2020
7.	Final Qualification	M.Sc.
8.	Other department (s) involved in teaching the course	None
9.	Language of Instruction	English
10.	Date of production/revision	16 th September 2019
11.	Required/ Elective	Required

12. Course Coordinator:

Dr. Hamad Alsawalqah
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Office hours: (Sunday ~ Thursday) 1- 2 pm

13. Other instructors:

None

14. Course Description:

Information systems are an integral part of all business activities and careers. This course is designed to introduce students to contemporary information systems and demonstrate how these systems are used throughout global organizations. It does so from a business perspective, looking at information technologies and the use of information in business. The focus of the course is on information, to put the relevance and value of information systems into perspective. The focus of this course also will be on the key components of information systems—people, software, hardware, data, and communication technologies—and how these components can be integrated and managed to create competitive advantage. Through the knowledge of how IS provides a competitive advantage students will gain an understanding of how information is used in organizations and how IT enables improvement in quality, speed, and agility. The course discusses topics, such as the Internet and World Wide Web, electronic business, enterprise information systems, business intelligence, information for decision-making, computational thinking, technology acquisition, information security and privacy, and emerging technologies, amongst others.

15. Course aims and outcomes:

A- Aims:
The Goal:

The main goal of this course is to equip students with knowledge about information systems concepts, components, types, as well as the necessary knowledge on how to use and implement information systems.

Aims:
The main objectives of the course are:

1. To enable students to understand the vital role played by Computer and Information Technology in supporting and facilitating all aspects of information management, electronic commerce, enterprise resource planning and other business activities;
2. To provide a conceptual framework for understanding the workings and function of information systems components and the different types on information systems.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to:

1. Demonstrate an understanding of what information systems are.
2. Identify the technology, people, and organizational components of information systems.
3. Know the potential impact of information systems and having the ability to put this knowledge to work can result in a successful personal career and in organizations that reach their goals.
4. Understand and analyze the flow of data within information systems using data flow diagrams.
5. Demonstrate an understanding of how the use of information systems to add value to the organization is strongly influenced by organizational structure, culture, and change.
6. Understand that data management and modeling are key aspects of organizing data and information.
7. Realize that a well-designed and well-managed database is an extremely valuable tool in supporting decision making.
8. Demonstrate an understanding of how E-commerce and M-commerce can be used in many innovative ways to improve the operations of an organization.
9. Understand why organizations must have information systems that support routine, day-to-day activities and that help a company add value to its products and services.
10. Demonstrate an understanding of how an organization that implements an enterprise resource planning system is creating a highly integrated set of systems, which can lead to many business benefits,
11. Understand that good decision-making and problem-solving skills are the key to developing effective information and decision support systems.
12. Analyze data to solve business problems and support decision making (using Microsoft Excel).
13. Understand how knowledge management allows organizations to share knowledge and experience among managers and employee.
14. Define the term information systems planning and list several reasons for initiating a systems project.
15. Realize that systems development often uses tools to select, implement, and monitor projects, including prototyping, rapid application development, CASE tools, and object-oriented development.
16. Discuss the software development process and list some of the tools used in this process, including object-oriented program development tools.

16. Topic Outline and Schedule:

Topic	Week	ILOs	TLA (teaching, learning and Assessment)
Chapter 1: An Introduction to Information Systems, Review of Data Flow Diagram	1-2	1 ~ 4	T: Lecture L: Reading lecture notes and book chapter 1, Data Flow Diagram handouts. A: In class questions and discussion, assign the individual presentations
Chapter 2: Information Systems in Organizations	3	5	T: Present examples L: Reading lecture notes and book chapter 2 A: In class questions and discussion, Individual presentation.
Chapter 5: Database Systems, Data Centers, and Business Intelligence	4	6, 7	T: Present examples L: Reading lecture notes and book chapter 5 A: In class questions and discussion, Individual presentation.
Chapter 8 Electronic and Mobile Commerce	5	8	T: Lecture L: Reading lecture notes and book chapter 8 A: In class questions and discussion, Individual presentation.
Chapter 9: Enterprise Systems	6	9, 10	T: Lecture L: Reading lecture notes and book chapter 9 A: In class questions and discussion, Individual presentation.
Chapter 10: Information and Decision Support Systems	7, 8	11, 12	T: Lectures and lab training sessions L: Reading lecture notes and book chapter 10, practice using MS Excel. A: In class questions and discussion, Individual presentation
Midterm Exam	9		A: Written exam on materials in Chapters: 1, 2, 3, 4
Chapter 11: Knowledge Management and Specialized Information Systems	10	13	T: Lecture L: Reading lecture notes and book chapter 11 A: In class questions and discussion, Individual presentation.
Chapter 12: Systems Development: Investigation and Analysis	11	14, 15	T: Lecture L: Reading lecture notes and book chapter 12 A: In class questions and discussion, Individual presentation.
Chapter 13: Systems Development: Design, Implementation, Maintenance, and Review	12	16	T: Lecture, present examples L: Reading lecture notes and book chapter 12

			A: In class questions and discussion, Individual presentation.
Term papers	13	17	A: Term papers presentations and discussions
Final Exam	14		

17. Evaluation Methods and Course Requirements (Optional):

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Assessment (A) Methods:

There will be several assessment methods of evaluation the performance of the students such as attending and class participation, individual presentations (students are required to make an individual presentation to the entire class; choosing one of the broad topics from Information Systems published in top journals for IS), term papers, conducting the Midterm and the Final Exams.

18. Course Policies:

A- Attendance policies:

Class attendance is mandatory. University regulations will be applied. Regular attendance is essential for satisfactory completion of this course.

B- Absences from exams:

Absences from exams and handing in assignments on time: Any student who misses any exam will receive a failing grade. Permission for makeup will be granted only if the student notifies the instructor in due time and presents evidence of an officially excused absence

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

Honesty policy regarding cheating, plagiarism, misbehavior: The honor code applies to all work turned in for this course including exams and assignments. It is important that you understand the solutions to all problems, and the best way to gain an understanding is to work them out and write them up by yourself. Hence the policy is that you must submit your own work. You may not share your work with other students, unless it is allowed as group. Violating the policy will be taken as a no submission state for the assignment. University regulations will be preserved at all times.

E- Grading policy + Weighting (i.e. weight assigned to exams as well as other student work)

Intended Grading Scale:

Range	LG	الحرف	Range	LG	الحرف
90 – 100	A	أ	74 – 77	B-	ب-
86 – 89	A-	أ-	70 – 73	C+	ج+
82 – 85	B+	ب+	66 – 69	C	ج
78 – 81	B	ب	61 – 65	C-	ج-

However, this grading policy is subject to change based on the actual students' performance during the semester and the feedback from the department council. Moreover, the grading scale also might be decided automatically by the university electronic grading management system.

Assessment Weights:

Midterm Exam	30%
Term Paper	15%
Individual Presentation	5%
Final Exam	50%

F- Available university services that support achievement in the course:
Course website: available at: <https://elearning.ju.edu.jo/>
Library and e-Library.

G- Statement on Students with disabilities
Students with Disabilities who need special accommodations for this class are encouraged to meet with the instructor and/or their academic advisor as soon as possible. In order to receive accommodations for academic work in this course, students must inform the course instructor and/or their academic advisor, preferably in a written format, about their needs no later than the 4th week of classes.

19. References:

<p>A- Required book (s), assigned reading and audio-visuals:</p> <ul style="list-style-type: none"> - Principles of Information Systems, (12th Ed). Ralph M. Stair, George Reynolds – Course Technology Publishers, 2016 ISBN-10: 1285867165 ISBN-13: 9781285867168 <p>B- Recommended books, materials, and media:</p> <ul style="list-style-type: none"> - O'Brien JA, Marakas GM. Management information systems. McGraw-Hill Irwin; 2006.
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20. Additional information:

Please visit the course website available at: <https://elearning.ju.edu.jo>

Date: 19th September 2019-----
Name of Course Coordinator: --Dr. Hamad Alsawalqah-----Signature: -----

Head of curriculum committee/Department: --- ----- Signature: -----
Head of Department: Dr. Hamad Alsawalqah ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----
Dean: ----- -Signature: -----

Copy to:
Head of Department
Assistant Dean for Quality Assurance
Course File