Course Syllabus

1. **Department Name:**	**Management information system**	
2. **Program Name:**	BSc. Management information system	
3. **Program Code**		
4. **Course Code and Title:**	Information Security (1605444)	
5. **Course credits:**	3	
6. **Pre-requisites:**		
7. **Course Instructor/ Coordinator Name, Email and Office hours**	*Dr. Hazar Y. Hmoud*	
	h.hmoud@ju.edu.jo	
	Sun, Tue, Thu (11-12)	
8. **Course web-page:**		
9. **Academic year:**	2018-2019	
10. **Semester:**	**First**	X	**Second**	1st **Summer**	2nd **Summer**

11. Textbook(s) *(Make sure you have one textbook – resource materials online)*
Whitman, M.E. and Mattord, H.J., 2017. Principles of information security. Cengage Learning.

12. References: *(Make sure that the references are available in the Library and online)*
To be published on the e-learning.

13. Other resources used *(e.g. periodicals, software, eLearning, site visits, etc.):*
To be published on the e-learning.

14. Course description (from the catalog)

This course provides a broad review of the entire field of information security, background on many related elements and concepts, and enough detail to facilitate an understanding of the topic as a whole. Through the course, we will cover the terminology of the field, the history of the discipline, and strategies for managing an information security program.

A structured approach would be followed in this course; a structure that moves from the strategic aspects of information security to the operational—beginning with the external impetus for information security, moving through the organization's governance, risk management, and regulatory compliance strategic approaches, and continuing with the technical and operational implementation of security in the organization. Such approach is believed to support the students' learning.

15. _Course Intended Learning Outcomes:_ *(All CILOs must start with an action verb, please use ANNEX I for getting a better understanding of the Action Verbs and Blooms Taxonomy. The mapping of the CILOs with relevance to the PILOs of the program.)*

					Mapping to PILOs						
CILOs *(Preferred not to exceed 12 CILOs)*	1	2	3	4	5	6	7	8	9		
1. Knowledge and Understanding	X			X							
2. Intellectual Analytical and Cognitive Skills					X	X	X				
3. Subject- Specific Skills								X			
4. Transferable Key Skills									X		

16. _Course evaluation:_ *(Formative and summative assessment methods are expected)*

Assessment Type	Details/ Explanation of Assessment in relation to CILOs	Number	Weight	Date(s)
Quizzes			%	
Midterms (first and second assessment)	**Chapters 1,2,3**	**1**	20%	To be determine
	Chapters 4,9,11	**2**	20%	To be determined
Assignments			%	
Projects/Case Studies	**Course project and quizzes**		20%	
Final	**All chapters**		40%	To be determined
Total			100%	

17. _Description of Topics Covered_ *(The description should be from the textbook used)*

Topic Title (e.g. chapter title)	Description
Chapter 1: Introduction to information security	✓ Define information security ✓ Recount the history of computer security, and explain how it evolved into information security ✓ Define key terms and critical concepts of information security ✓ Explain the role of security in the systems development life cycle ✓ Describe the information security roles of professionals within an organization

Chapter 2: The need for security	✓ Discuss the organizational need for information security ✓ Explain why a successful information security program is the shared responsibility of an organization's three communities of interest ✓ List and describe the threats posed to information security and common attacks associated with those threats ✓ List the common development failures and errors that result from poor software security efforts
Chapter 3: Legal, ethical, and professional issues in information security	✓ Describe the functions of and relationships among laws, regulations, and professional organizations in information security ✓ Explain the differences between laws and ethics ✓ Identify major national laws that affect the practice of information security ✓ Discuss the role of privacy as it applies to law and ethics in information security
Chapter 4:Planning for security	✓ Describe management's role in the development, maintenance, and enforcement of information security policy, standards, practices, procedures, and guidelines ✓ Explain what an information security blueprint is, identify its major components, and explain how it supports the information security program ✓ Discuss how an organization institutionalizes its policies, standards, and practices using education, training, and awareness programs ✓ Describe what contingency planning is and how it relates to incident response planning, disaster recovery planning, and business continuity plans
Chapter 9: Physical security	✓ Discuss the relationship between information security and physical security ✓ Describe key physical security considerations, including fire control and surveillance systems ✓ Identify critical physical environment considerations for computing facilities, including uninterruptible power supplies
Chapter 11: Security and personnel	✓ Describe where and how the information security function should be positioned within organizations ✓ Explain the issues and concerns related to staffing the information security function ✓ List and describe the credentials that information security professionals can earn to gain recognition in the field ✓ Discuss how an organization's employment policies and practices can support the information security effort ✓ Identify the special security precautions that must be taken when using contract workers ✓ Explain the need for the separation of duties ✓ Describe the special requirements needed to ensure the privacy of personnel data
Chapter 8: Cryptography	✓ Chronicle the most significant events and discoveries in the history of cryptology ✓ Explain the basic principles of cryptography ✓ Describe the operating principles of the most popular cryptographic tools ✓ List and explain the major protocols used for secure communications

Chapter 6 and 7	✓ Review basic about some security control and network devices.

18. Course Weekly Breakdown:

Week	Date	Topics covered	CILOs	Teaching Method	Assessment
1		*Chapter1*	*1*	Lecture+ discussion	Exam+ participation
2		*Chapter 1*	*1*	Lecture+ discussion	Exam+ participation
3		*Chapter 2*	*1*	Lecture+ discussion	Exam+ participation
4		*Chapter2*	*1*	Lecture+ discussion	Exam+ participation
5		*Chapter3*	*1,3*	Lecture+ discussion	Exam+ participation
6		*Chapter3*	*1,3*	Lecture+ discussion	Exam+ participation
7		*Chapter4*	*2,4*	Lecture+ discussion	Exam+ participation
8		*Chapter4*	*2,4*	Lecture+ discussion	Exam+ participation
9		*Chapter9*	*1,2,3,4*	Lecture+ discussion	Exam+ participation
10		*Chapter9*	*1,2,3,4*	Lecture+ discussion	Exam+ participation
11		*Chapter11*	*1,2,3,4*	Lecture+ discussion	Exam+ participation
12		*Chapter11*	*1,2,3,4*	Lecture+ discussion	Exam+ participation
13		*Chapter8*	*1,2,3,4*	Lecture+ discussion	Exam+ participation
14		*Chapter8*	*1,2,3,4*	Lecture+ discussion	Exam+ participation
15		*Chapters 6&7*	*1*	Lecture+ discussion	Exam+ participation
16		*Final examination week*			

Course Syllabus QF-AQAC-03.02BS.1.2

19.	**Others:**	

	Description
Attendance policies:	Students are not allowed to miss more than 15% of the classes during the semester. Failing to meet this requirement will be dealt with according to the university disciplinary rules.
Absences from exams and handing in assignments on time:	• If you're absent from one or more of your examinations for medical or other mitigating reasons, you must fill in an Extenuating Evidence form. You can get it from your Faculty Office. Complete it and hand it in to your Faculty Office – with supporting evidence for the end-of-year examinations. • If you can't hand in a piece of homework by its deadline, you can't submit it after that.
Health and safety procedures:	• No smoking in the department. • Fire alarm call points are red 'Break Glass' boxes and are located on exit routes from the department and elsewhere. • Keep all fire doors and fire exit routes clear at all times. • Never enter a building where the fire alarm is going off. • To call the Emergency Services dial 911
Honesty policy regarding cheating, plagiarism, misbehavior:	

Course Coordinator:	Dr. Hazar Y. Hmoud	Hazar Hmoud
Head of Department:	Dr. Mohammad Najjar	Add your Signature
Head of curriculum committee/ School Level:	Type the Name	Add your Signature
Dean:	Dr. Fayez Haddad	Add your Signature
Approved by the Program Coordinator/ Head of the Department on:	21/01/209	

Copy to:
☐   **Head of Department**
☐   **Assistant dean for Development and Quality Assurance**
☐   **Course Portfolio**