Jordan University of Science and Technology
Faculty of Computer & Information Technology
Software Engineering Department

HSS103SE Introduction To Information Technology - JNQF Level: 6

Second Semester 2023-2024

Course Catalog
3 Credit Hours. This course introduces the latest major concepts of Information Technology (IT) encompassing the Internet of Things and smart systems, cyber security, artificial intelligence, big data, blockchain, and social media. It also presents a perspective foundation on the range of underlying theoretical and practical principles regarding information technology and how they would impact the lifestyle of individuals.
Teaching Method: Blended

Text Book	
Title	Technology in Action
Author(s)	Alan Evans ? Kendall Martin ? Mary Anne Poatsy
Edition	13th Edition
Short Name	Ref #1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Computer Science: AN OVERVIEW	J. Glenn Brookshear, Dennis Brylow	13th Edition	

Instructor	
Name	**Mrs. Suzan Bdour**
Office Location	A2-L3
Office Hours	Sun : 11:30 - 12:30 Mon : 09:30 - 11:30 Tue : 11:30 - 12:30 Wed : 09:30 - 11:30
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Instructor	
Name	**Dr. Hala Hamadeh**
Office Location	CH1 L2
Office Hours	Sun : 11:30 - 12:45 Mon : 08:30 - 08:45 Tue : 11:30 - 12:45 Thu : 08:30 - 10:30 Thu : 11:30 - 12:45
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Class Schedule & Room

Section 1:
Lecture Time: Sun, Tue : 08:30 - 09:30
Room: A2122

Section 2:
Lecture Time: Sun, Tue : 09:30 - 10:30
Room: NG54

Section 3:
Lecture Time: Sun, Tue : 08:30 - 09:30
Room: PH2101

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2	Sub-module 1.1: IT Impact and AI	**Chapter 1** From **Ref #1**
Week 3	Sub-module 2.1 - From System Software to System Hardware	
Week 4	Sub-module 2.2 - Computer Organization	**Chapter 2** From **Ref #1**

Week 5	Sub-module 3.1: Numbering Systems	From **Ref #2**
Weeks 6, 7	Sub-module 3.2: Data Storage	**Chapter 1** From **Ref #2**
Week 8	Sub-module 4.1: Data Sciences	
Week 9	Sub-module 5.1: Programming Concepts	
Weeks 10, 11, 12	Sub-module 6.1: Software Engineering	
Weeks 13, 14	Sub-module 7.1: Networking	**Chapter 7** From **Ref #1**
Week 15	Sub-module 8.1: Security	**Chapter 9** From **Ref #1**
Week 16	Final Exam	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Explain the role of information technology and its foundation basics. [1C8] [1L6C5]	10%	
Understand the impacts of information technologies on everyday life. [1C7] [1L6C3]	10%	
Gain knowledge with the technologies behind artificial intelligence and machine learnings. [1C13] [1L6S1]	10%	
Get familiar with latest topics about cyber security technology. [1C11] [1L6S2]	10%	
Get exposure to the essentials and operating principles of the Internet of Things and smart systems. [1C11] [1L6C3]	10%	
Understand the basics of blockchain technology. [1C11] [1L6S2]	10%	
Understand core concepts and applications behind big data problems. [1C8] [1L6S2]	10%	
Get aware of how public relations and marketing have changed due to the rise of social media. [1C18] [1L6C5]	10%	
Learn about how using information technology would change the world. [1C18] [1L6S3]	10%	
Acquire insight into the future trends of technologies. [1C11] [1L6S2]	10%	

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SM1p	SM2p	SM3p	EA1p	EA2p	EA3p	EA4p	D1p	D2p	D3p	D4p	D5p	D6p	ET1p	ET2p	ET3p	ET4p	ET5p	ET6p	EP1p	EP2p	EP3p	EP4p	EP5p	EP6p

Relationship to NQF Outcomes (Out of 100%)				
L6S1	L6S2	L6S3	L6C3	L6C5
10	40	10	20	20

Evaluation	
Assessment Tool	**Weight**
First	25%
Second	25%
Quizzes	10%
Final	40%

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