	Hashemite University Prince Al-Hussein bin Abdullah II Faculty for Information Technology Department of Computer Information Systems	

Course Syllabus

Year: 2018-2019 **Semester: (1)**

Course No.	Course Title	Designation	Prerequisite	Co-requisite	Credit Hours Lectures /Lab.
151002420	Network Management	Required	161001320	-	3 / 0

Instructor Name	E-mail	Office No.	Office ext.	Office Hours
Dr. Nabhan Hamadneh	nabhan@hu.edu.jo	IT 241	4150	Sun, Tue, Thu (11-12)

Coordinator's Name:	Dr. Nabhan Hamadneh

Course Description	This course is designed for second year undergraduate students and it is a comprehensive study of the principles and practices of computer system security including , the OSI security architecture, security attacks, security mechanisms, symmetric ciphers, Classical encryption techniques, data encryption standards (DES), primary numbers, introduction to number theory, public-key cryptosystems, RSA algorithm, message authentication, digital signature, Hash function.

a) Textbook(s):
1. Mani Subramanian "Network Management: Principles and Practice", 2nd Edition, Prentice Hall, 2010.
b) Additional References:
2. Stallings, William. "SNMP, SNMPv2, SNMPv3 and RMON 1 and 2: The Practical Guide to Network Management Standards" 3rd Edition, Addison-Wesley..

Course Learning Outcomes CLOs
1. Demonstrate a good working knowledge of (OSI, Internet, TMN) standards and the literature of SNMP protocol
2. Describe the need for and issues associated with different SNMP versions of network management systems
3. Describe the tools and models that can be used to address issues in architecting network management solutions.
4. Analyze a specific network management problem and apply concepts and issues learnt to design one or more aspects of a network management solution
Addressed Student Learning Outcomes (SLOs)
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Topic	CLO number	Reference	No. of Weeks	Contact *hours
1. Data Communications and NM Overview	1	Ch1	2	6
2. Computer Network Technology	2	Ch2	2	6
3. Basic Foundations: Standards, Models, and Language	3	Ch3	2	6
4. SNMPv1: Organization and Information Models	2	Ch4	2	6
5. SNMPv1: Communication and Functional Models	4	Ch5	2	6
6. SNMPv2	2	Ch6	2	6
7. SNMPv3	2	Ch7	3	3
8. RMON	3	Ch8	3	3
Total			15	45

Assessment method	Grade	Comments
First Exam	30%	TBA
Second Exam	30%	TBA
Final Exam	40%	Covers all topics
Total	100%	