

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(a)hu edu to l		4150	Sun, Tue, Thu (11-12)

Coordinator's Name:

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.
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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) literature of SNMP protocol	standards and the			
2. Describe the need for and issues associated with different SNMP v management systems	versions of network			
3. Describe the tools and models that can be used to address issues in network management solutions.	architecting			
4. Analyze a specific network management problem and apply conce learnt to design one or more aspects of a network management sol	-			
Addressed Student Learning Outcomes (SLOs)				

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Торіс	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%	