



Philadelphia University
Faculty of Administrative and Financial Sciences
Department of Networking and Systems Management

Course Syllabus

Course title: Networks Management	Course code: (0371426)
Course level: Fourth year	Course prerequisite (s) and/or co requisite (s): (0371324)
Lecture time:	Credit hours: (3) hours.

Academic Staff Specifics

Name	Rank	Office Number/ Location And Office Phone Number	Office hours	E-mail address
Dr. Hussein H. Owaied Al-Shemery	Ph.D.	Second Building / 32422 Ext: 2631		ashemery@philadelphia.edu.jo

Course Description:

This course prepares the students to administer networks using the Microsoft Windows Server 2008 operating system. Focusing on updates to the software and in-depth coverage of the administration aspects of Windows Server 2008. In this course includes topics such as installing, configuring, managing and troubleshooting. Finally help students to pass the MCITP 70-646 certification exam.

Course Objectives:

After completing this course, students will be able to:

- 1: Manage computer networks.*
- 2: Install and configure Windows Server 2008.*
- 3: Install and configure Active Directory.*
- 4: Create and manage user accounts.*
- 5: Configure, Manage, and Troubleshoot Resource Access.*
- 6: Configure and manage data storage.*
- 7: Configure and troubleshoot DNS.*
- 8: Configure and manage WINS.*
- 9: Configure and troubleshoot DHCP.*
- 10: Plan IPv6.*

Course Components:

- Support material (s).*
- Study guide (s).*
- Homework and laboratory guide (s) if (applicable).*

Books (title , author (s), publisher, year of publication)

MCITP Guide to Microsoft ®Windows Server 2008, Server Administrator, Michael Palmer, Cengage Learning, 2011.

Teaching Methods:

- *Lectures.*
- *Discussion groups.*
- *Tutorials.*
- *Debates.*
- *Homework's.*
- *Small Project.*
- *Research Paper*
- *Hands-in labs.*
- *Lab Assignment in Labs.*

Learning Outcomes:

• **Knowledge and understanding:**

After completing this course successfully, the student will be able to:

- *Prepares the students to pass the MCITP 70-646 certification exam.*
- *Have solid knowledge in Microsoft Windows Server 2008 operating system.*
- *Demonstrate the ability to install, use, configure, and troubleshoot, Microsoft Windows Server 2008 operating system, Active directory and Account management.*
- *Have solid understanding networking risks, and be able to protect information from potential threats, attack or damage.*

• **Cognitive Skills (thinking and analysis):**

- *A round is done in the class by the instructor to monitor how the practical part of the course is done to make sure that it is done effectively. Problems that may appear from time to time in the lecture are solved.*
- *Every lecture there will be five minutes open for discussion. For best discussion, the students are welcome at the lecturer office hours.*
- *Group Management: Students work on group projects (approximately two to three students) to practice interpersonal*

• **Communication Skills (personal and academic):**

A round is done in the class by the instructor to monitor how the practical part of the course is done to make sure that it is done effectively. Problems that may appear from time to time in the lecture are solved.

• **Practical and Subject Specific Skills (Transferable Skills):**

A project is given to the student to use his mental capabilities to solve the problem. This way of demonstrating the course was fruitful taking into account the recognized results achieved. It was not quiet convenient because the short time the students spend in solving the problem.

Assessment Instruments

- *Short Reports and/ or Presentations and/ or Short Research Projects.*
- *Quizzes.*
- *Homework.*
- *Final Examination.*

<u>Allocation of Marks</u>		
<i>Assessment Instruments</i>	<i>Mark</i>	<i>Exam Date and Day</i>
<i>First Examination</i>	20	
<i>Second Examination</i>	20	
<i>Final Examination</i>	40	
<i>- Project or Research, Quizzes, Reports or Home works, Student Projects / researches discussion or presentation, and Student attendance (presence and absence).</i>	20	
<i>Total</i>	100	

Documentation and Academic Honesty

- *Documentation style (with illustrative examples).*
- *Protection by copyright*
- *Avoiding plagiarism.*

Definition of Plagiarism

Plagiarism is the unacknowledged borrowing of another writer's words or ideas.

How Can Students Avoid Plagiarism?

To avoid plagiarism, you must give credit whenever you use

- *another person's idea, opinion, or theory;*
- *any facts, statistics, graphs, drawings—any pieces of information—that are not common knowledge;*
- *quotations of another person's actual spoken or written words; or*
- *Paraphrase of another person's spoken or written words.*

*If you are in doubt about whether what you are doing is inappropriate, consult your instructor. **A claim that "you didn't know it was wrong" will not be accepted as an excuse.***

Penalty for Plagiarism

The minimum penalty for an act of plagiarism is a 0 on the assignment, homework, and project. Serious cases of plagiarism may result in failure in the course as a whole, or expulsion from the university.

Course/Module Academic Calendar

Week	Basic and support material to be covered	Homework/reports and their due dates
(1)	Introduction to Windows Server 2008: - Windows Server 2008 Platforms. - Windows Server 2008 Features.	-Students drag-and-add period
(2)	- Planning a Windows Server 2008 Networking Model. - Protocols for the Windows Server 2008 Networking Model	
(3)	Installing Windows Server 2008: - Preparing for Installation. - Identifying hardware requirements and determining compatibility. - Understanding NTFS. -Upgrading to Windows Server 2008. - Identifying Server Roles.	
(4)	- Overview of Windows Server 2008 Installation Methods.	
(5)	Configuring the Windows Server 2008 Environment: - Using Server Manager. - Configuring Server Hardware Devices. - Configuring the Operating System.	
(6) First Examination	Quick review	- First Examination
(7)	- Installing a Protocol. - Understanding the Windows Server 2008 Registry.	- First Examination
(8)	Introduction to Active Directory and Account Management: - Understanding Active Directory Basic concepts. - Install and configure Active Directory. - Plan and implement Active directory containers.	
(9)	- Create and manage user accounts. - Configure and use security groups.	
(10)	Configuring, Managing, and Troubleshooting Resource Access: - Managing Folder and File Security. - Configuring Folder and File Attributes. - Configuring Folder and File Permissions. - Configuring Folder and File Auditing. - Configuring Folder and File Ownership. - Configuring Shared Folders and Shared Folder Permissions.	
(11) Second Examination	Quick review	- Second Examination
Week	Basic and support material to be covered	Homework/reports and their due dates
(12)	- Publishing a Shared Folder in Active Directory. - Troubleshooting a Security Conflict. - Implementing a Distributed File System. - Configuring Disk Quotas. - Using UNIX Interoperability in Windows Server 2008	- Second Examination
(13)	Configuring and Managing Data Storage: - Windows Server 2008 Storage Options. - Disk Management.	-01/01/2014 – New year holiday

	- <i>Introduction to Fault Tolerance.</i>	
(14)	- <i>Windows Server 2008 Storage Enhancements.</i> - <i>Disk Backup.</i> - <i>Windows Server Backup.</i>	
(15) <i>Specimen Examination (Optional)</i>	<i>Managing Windows Server 2008 Network Services:</i> - <i>Planning for IPv6.</i> - <i>IPv4 Compared to IPv6.</i> - <i>Types of IPv6 Packets.</i> - <i>Implementing Microsoft DNS.</i> - <i>Installing DNS Services.</i> - <i>DNS Zones.</i> - <i>Using the DNS Dynamic Update Protocol.</i> - <i>DNS Replication.</i> - <i>Additional DNS Server Roles.</i>	
(16) <i>Final Examination</i>	- <i>Using DNS to Balance Application Access.</i> - <i>DNS Enhancements.</i> - <i>Creating a DNS Implementation Plan.</i> - <i>Troubleshooting DNS.</i> - <i>Implementing Microsoft WINS.</i> - <i>Implementing Microsoft DHCP.</i> - <i>Configuring a DHCP Server.</i> - <i>DHCPv6 Support and Configuring IPv6.</i>	- <i>Final Examination</i>

Expected Workload:

On average students need to spend 2 hours of study and preparation for each 50-minute lecture/tutorial.

Attendance Policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.