



# Course Specification

## (Bachelor)

Course Title: **Computer Network Management**

Course Code: **212-CCN-3**

Program: **Bachelor of Science in Computer Networks**

Department: **Networks and Communications Engineering**

College: **Computer Science and Information Systems**

Institution: **Najran University**

Version: **1.0**

Last Revision Date: **16/2/2025**



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## A. General information about the course:

### 1. Course Identification

1. Credit hours: ( ..... )

3 (2, 2, 1) [Theory, Lab, Tutorial]

2. Course type

A.  University  College  Department  Track  Others

B.  Required  Elective

3. Level/year at which this course is offered: Level 4 /Year 2

4. Course General Description:

This course provides practical implementation of networking as well as a knowledge of related equipment and terminologies. The course also describes managing level networks using Active Directory and remote access. It also focuses on network management and environment customization techniques, including creating users/groups, managing file permissions, configuring server roles, using group policies to configure and secure the network, and routine system maintenance and troubleshooting.

5. Pre-requirements for this course (if any):

201CCN-4

6. Co-requisites for this course (if any):

N/A

7. Course Main Objective(s):

The course introduces students to the foundational concepts and experience in networking administration. The course provides the theory, concepts and practical experience in the design, installation and configuration of personal computers, peer-to-peer networks and client-server networks meeting user requirements.

2. Teaching mode (mark all that apply)



No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	75	100%
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> <li>• Traditional classroom</li> <li>• E-learning</li> </ul>		
4	Distance learning		

### 3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures [2 contact hour x 15 weeks]	30
2.	Laboratory/Studio [2 contact hour x 15 weeks]	30
3.	Field	
4.	Tutorial [1 contact hour x 15 weeks]	15
5.	Others (specify)	
<b>Total</b>		<b>75</b>

## B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge and understanding</b>			
1.1	Determine the Theoretical aspects of Network Administration	K1	Lecture	Tests, Quizzes, and Assignments
<b>2.0</b>	<b>Skills</b>			
2.1	Design peer-to-peer networks to share resources	S1, S4	Lecture, Lab	Tests, Quizzes, Assignments, and Lab
2.2	Analyze requirements of network architecture for a given scenario	S4	Lecture, Lab	Tests, Quizzes, Assignments, and Lab



Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
2.3	Evaluate a design for a systems and network solution	S2	Lecture, Lab	Tests, Quizzes, Assignments, and Lab
2.4	Configure a client-server network and required network services for a given scenario	S4	Lecture, Lab	Tests, Quizzes, Assignments, and Lab
<b>3.0</b>	<b>Values, autonomy, and responsibility</b>			
3.1				

### C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to VM Virtual Box, Windows client and server	10
2.	Administering Microsoft Windows Server 2016	10
3.	User Accounts	5
4.	Group Accounts	5
5.	Computer Accounts	5
6.	Files and Folders	5
7.	Backup Data	5
8.	Printers	5
9.	Maintaining the operating system	10
10.	Monitoring Microsoft Windows Server 2016	5
11.	Implementing File Systems	10
<b>Total</b>		

### D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	2,4,7,9	8%
2.	Assignments or mini project (presentation)	3,5,8,9	12%
3.	Midterm Examination	6th week	20%
4.	Lab Activities	2-14th week	10%
5.	Lab Final Examination	15th week	10%





No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
6.	Final Examination	16th,17th week	40%
...			

\*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

## E. Learning Resources and Facilities

### 1. References and Learning Resources

<b>Essential References</b>	Zacker, Craig. <b>Microsoft Official Academic Course: Managing and Maintaining a Microsoft Windows Server 2016 Environment.</b> Redmond, Microsoft Press, 201+ [ISBN 0-07-294490-0] [REF MCSE Exam 70-290]
<b>Supportive References</b>	<p>1. Corbin, Wendy. <b>Microsoft Official Academic Course: Planning, Implementing and Maintaining a Microsoft Windows Server 2016 Active Directory Infrastructure.</b> Redmond, Microsoft Press [ISBN 0-07-294490-0][REF MCSE Exam 70-294]</p> <p>2. Simpson, Ted and Simpson, Micheal. <b>Guide to NetWare 6.0/6.5 Administration [Enhanced Edition].</b> Cambridge, Course Technology - ITP, 2004 [ISBN 0-619-21543-7]</p>
<b>Electronic Materials</b>	Available in Blackboard
<b>Other Learning Materials</b>	

### 2. Required Facilities and equipment

Items	Resources
<b>facilities</b> (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture Room and
<b>Technology equipment</b> (projector, smart board, software)	Laboratory
<b>Other equipment</b> (depending on the nature of the specialty)	Data show, PCs.

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	• Indirect (questionnaire)





Assessment Areas/Issues	Assessor	Assessment Methods
		<ul style="list-style-type: none"> <li>• University online questionnaire for evaluation the course by students.</li> <li>• Observing the student's opinions recorded on the college student site.</li> <li>• Appeal &amp; suggestions box</li> </ul>
Effectiveness of Students assessment	Peer reviewer	Direct (review of the quality of the exam done by course coordinator)
Quality of learning resources	Faculty & students	The lecturer prepares and create the learning resources before the class begins and make them more related to the course. Questionnaire
The extent to which CLOs have been achieved	Faculty	Student assessments reviewing
Other		

**Assessors** (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify))

**Assessment Methods** (Direct, Indirect)

### G. Specification Approval

<b>COUNCIL /COMMITTEE</b>	NETWORK AND COMMUNICATIONS ENGINEERING DEPARTMENT COUNCIL
<b>REFERENCE NO.</b>	14450824-0482-00014
<b>DATE</b>	5/3/2024

