





Course Specifications

Course Title:	Network Administration	
Course Code:	462CIS-3	
Program:	Information Systems	
Department:	Department of Information Systems	
College:	College of Computer Science and Information Systems	
Institution:	Najran University	





Table of Contents

A. Course Identification	
6. Mode of Instruction (mark all that apply)	3
B. Course Objectives and Learning Outcomes	
1. Course Description	3
2. Course Main Objective	4
3. Course Learning Outcomes	4
C. Course Content	
D. Teaching and Assessment	
1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods	4
2. Assessment Tasks for Students	6
E. Student Academic Counseling and Support	
F. Learning Resources and Facilities	
1.Learning Resources	6
2. Facilities Required	6
G. Course Quality Evaluation7	
H. Specification Approval Data7	



A. Course Identification

1. Credit hours:		
2. Course type		
a. University College Department $$ Others		
b. Required $$ Elective		
3. Level/year at which this course is offered: Level 8 / Year 4		
4. Pre-requisites for this course (if any): 361CIS-3		
5. Co-requisites for this course (if any):		
N/A		

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	75	100%
2	Blended		
3	E-learning		
4	Correspondence		
5	Other		

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Conta	et Hours	
1	Lecture	30
2	Laboratory/Studio	30
3	Tutorial	15
4	Others (specify)	
	Total	75
Other Learning Hours*		
1	Study	15
2	Assignments	10
3	Library	10
4	Projects/Research Essays/Theses	10
5	Others (specify)	
I	Total	45

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

This course provides practical implementation of networking as well as a knowledge of related equipment and terminologies. The course also describes the 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, routine system maintenance and troubleshooting.

2. Course Main Objective

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.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
1.1	Illustrate the responsibilities of a network administrator.	K1
2	Skills :	
2.1	Install Network Operating System and other services in the servers	K1
2.2	Manage Microsoft Active Directory and its services	S3
2.3	Manage Network domain users and groups issues	S1
2.4	Monitor the Network performance and errors	
2.5	Troubleshoot Network performance and errors	S2
2.6	Manage network security issues	
3	Competence:	

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to Windows Server 2019	8
2	Administering Microsoft Windows Server 2019	5
3	User Accounts	4
4	Group Accounts	9
5	Computer Accounts	4
6	Files and Folders	10
7	Backup Data	4
8 Printers		10
9 Maintaining the operating system		5
10Monitoring Microsoft Windows Server 20035		5
11	Monitor the Network performance and error	7
12	Revision	4
	Total	75

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
1.1	Illustrate the responsibilities	Lectures, active learning, Aborative and cooperative	- Class Quizzes.
	3		

Image Number of Section 2.5Skills- Assignment assignments are used as teaching strategies. - Showing and delivering PPT presentation in the class. - Using a whiteboard to explain essential points in more detail. - Motivating students to be active during class by asking questions regularly during lecture Assignmen Midterm exam (Each exam consists of multiple choice questions, - Final Exam2.0Skills- Design a network on whiteboard for students to be active during class by asking questions regularly during lecture Design a network on whiteboard for students to make them more familiar with various networks topologies. - Ask students to give scenarios that required to analyze, evaluate, and configure a network to solve such problems- Class Quizzes. - Assignmen - Midterm2.6Manage network security issues- Let students solve problems regarding sharing resources in small groups and giving correction on their solution during class. - Motivating students to be active during class by asking questions regularly Class Quizzes. - Assignmen - Final Exam
2.0Skills2.1Install Network Operating System and other services in the servers- Design a network on whiteboard for students to make them more familiar with various networks topologies.2.2Manage Network domain users and groups issues- Manage Network domain users and groups issues2.3Manage Network domain users and groups issues- Ask students to give scenarios that required to analyze, evaluate, and configure a network to solve such problems2.4Monitor the Network performance and errors- Let students solve problems regarding sharing resources in small groups and giving correction on their solution during class Class Quizzes.2.6Manage network security issues- Motivating students to be active during class by asking questions regularly Class primal Fxam
 2.1 Install Network Operating System and other services in the servers 2.2 Manage Microsoft Active Directory and its services 2.3 Manage Network domain users and groups issues 2.4 Monitor the Network performance and errors 2.5 Troubleshoot Network performance and errors 2.6 Manage network security issues 2.7 Troubleshoot Network performance and errors 2.8 Manage network security issues 2.9 Manage network security issues 2.9 Manage network security issues 2.0 Manage network security issues 2.1 Manage network security issues 2.2 Manage network security issues 2.3 Manage network security issues 3 Motivating students to be active during class by asking questions regularly. 4 Midterm exam 5 Midterm exam
 2.3 Manage Network domain users and groups issues 2.4 Monitor the Network performance and errors 2.5 Troubleshoot Network performance and errors 2.6 Manage network security issues 2.7 Manage network security issues 2.8 Manage network security issues 2.9 Manage network security issues 2.9 Manage network security issues 2.9 Manage network security issues 2.1 Manage network security issues 2.1 Manage network security issues 2.2 Manage network security issues 2.2 Manage network security issues 2.3 Manage network security issues 3 Manage network security issues 4 Materna exam exam exam exam exam exam exam exa
 2.4 Monitor the Network performance and errors 2.5 Troubleshoot Network performance and errors 2.6 Manage network security issues 2.7 Let students solve problems regarding sharing resources in small groups and giving correction on their solution during class. 2.8 Motivating students to be active during class by asking questions regularly. 2.9 Final Examt
2.5Troubleshoot Network performance and errorsproblems2.6Manage network security issues- Let students solve problems regarding sharing resources in small groups and giving correction on their solution during class Class Quizzes Motivating students to be active during class by asking questions regularly Midterm exam
 2.6 Manage network security issues 2.6 Manage network security issues a small groups and giving correction on their solution during class. - Motivating students to be active during class by asking questions regularly. - Midterm exam - Final Exam
 Let students present their work after groupdiscussion session. Giving students tutorial related to scheduling algorithm to explain them in more detail. Motivating students to work in the home, to search the internet, to read related reference books by giving them assignments.
3.0 Competence



5

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Theory Assignment 1	3	3
2	Lab Assignment 1	4	2
3	Mid Lab Exam	5	7
4	Mid Term 1	6	15
5	Lab Assignment 2	13	2
6	Theory Assignment 2	11	3
7	Mid Term 2	12	15
8	Lab Performance	Through	3
		out	
9	Final Lab Exam	15	10
10	Final theory Exam	16	40
[Total	100

E. Student Academic Counseling and Support

The faculty allocated $\underline{10}$ office hours per week for the students individual consultation, to explain them topic which is not clear to them etc.

F. Learning Resources and Facilities

1. Learning Resources	
Required Textbooks	Zacker, Craig. Microsoft Official Academic Course: <u>Managing and</u> <u>Maintaining a Microsoft Windows Server 2003 Environment.</u> Redmond, Microsoft Press, 201+ [ISBN 0-07-294490-0][REF MCSE Exam 70-290]
Essential References Materials	Corbin, Wendy. Microsoft Official Academic Course: <u>Planning, Implementing</u> <u>and Maintaining a Microsoft Windows Server 2016 Active Directory</u> <u>Infrastructure.</u> Redmond, Microsoft Press [ISBN 0-07-294490-0][REF MCSE Exam 70-294] Simpson, Ted and Simpson, Micheal. <u>Guide to NetWare 6.0/6.5</u> <u>Administration [Enhanced Edition].</u> Cambridge, Course Technology - ITP, 2004 [ISBN 0-619-21543-7]
Electronic Materials	Saudi Digital Library

2. Facilities Required

Item	Resources
Accommodation	Lecture Rooms with 20 seats and a whiteboard or a smart
(Classrooms, laboratories, demonstration	board.
rooms/labs, etc.)	Laboratory with 20 PC and one server
	Desktop/ Laptop computer
Technology Resources	Multimedia Projector
(AV, data show, Smart Board, software,	Windows Server 2019
etc.)	Virtual Box
Other Resources	
(Specify, e.g. if specific laboratory	A File cabinet to keep Class Stuff, Markers, papers and students
equipment is required, list requirements or	Files, and exprinter to print program screenshots
attach a list)	

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	Indirect
Collecting students' suggestions to facilitate more during the class.	Students	Verbal discussion
Student's questioner once during semester about course learning outcomes.	Students	Questionnaire
Extent of achievement of course learning outcomes	Instructor	Direct
Meeting with course coordinator and college coordinator periodically.	Instructor	Direct

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify) Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Department Council
Reference No.	Session No. 10 (441-38-43300)
Date	17/02/2020

