COURSE FILE SUMMARY				
COURSE INFORMATION				
<u>College</u> / Institute / Center:	Management & Technology	Department:	BIS Dept.	
Program Title:	Bachelor of Business Administration	Program Code:	AS, ES	
Course Title:	Networks & Communication	Course Code:	S327	
# Hours:	2 hr	2 hr	3 hr	
	Lecture	Lab / <u>Tutorial</u>	Credit	
Pre Requisites: S317 Operating Systems				

# **COURSE FILE SUMMARY**

# COURSE AIM

The technical and managerial aspects of telecommunications and data networks as they apply to the business environment are discussed. Issues include: communications components and services, network architectures, network protocols, telephony, and security.

# COURSE OBJECTIVES

- Understanding different types of networks and how they are used by businesses
- Understanding how networks function
- Becoming familiar with the Internet protocols
- Learning about threats to networks and how networks are protected from such threats
- Describing the relation between Telephony and Data networks and how they are integrated.

	Qualifications	Special Skills	Number
Lectures	Ph.D. in CS, MIS, or IT	Preferably, professional experience in designing and installing networks	1
Tutorials			
Laboratories / Workshops	Bsc. In MIS, CS, or IT.	Preferably, practical experience in network administration	1

			LECTURE SCHEDULE
Lecture			
#	Week	Hrs	Description
1	$1^{\text{st}}$ .	2	Basic concepts and principles (part 1)
2	$2^{nd}$ .	2	Basic concepts and principles (part 2)
3	$3^{\rm rd}$ .	2	Network Standards, Reliability, Connection Orientation
4	$4^{\text{th}}$ .	2	Horizontal Layered Communication
5	$5^{\text{th}}$ .	2	Vertical Communication
6	$6^{\text{th}}$ .	2	Physical layer concepts, UTP Cables
7	$7^{\text{th}}$	2	Midterm exam
8	$8^{\text{th}}$ .	2	Fiber Optics Cables, and Network Topologies
9	$9^{\text{th}}$ .	2	Small Ethernet Networks (Part 1)
10	10 <sup>th</sup> .	2	Small Ethernet Networks (Part 2)
11	11 <sup>th</sup> .	2	Large Ethernet Networks
12	$12^{\text{th}}$ .	2	Telephony and Home User Connections
13	13 <sup>th</sup> .	2	Wide Area Networks: purposes and technologies
14	14 <sup>th</sup> .	2	Overview of TCP/IP stack of protocols
15	$15^{\text{th}}$ .	2	Network security
16	16".	2	Final exam

	Τεχτ Βοοκς
Code*	Description
	BUSINESS DATA COMMUNICATIONS AND NETWORKING by Raymond R. Panko, Prentice-Hall, Inc
	http://panko.cba.hawaii.edu/edition6/ http://www.prenhall.com/panko/

Code*	Description
	Computer Networks, William Stallings
	Internetworking with TCP/IP, Volume 1: Principles, Protocols, and Architectures, Douglas Comer. ISBN 0-13-187671-6

			TUTORIAL SCHEDULE
	Tutorial		
#	Week	Hrs	Торіс

				_ABORATORY WORKSHOP SCHEDULE
Laboratory				
#	Week	Hrs.	Code	Description
1	1	2		Basic Connectivity Components
2	2	2		Network Protocols
3	3	2		NetBUWI & TCP/IP setup
4	4	2		Understanding User Accounts
5	5	2		Administering Disks (Introduction : Tasks in Setting Up a Hard Disk)
6	6	2		Setting up and managing groups & Administering Shared Folders and Securing Resources with NTFS Permissions and Combining Shared Folder Permissions and NTFS Permission
7	7	2		Backing Up and Restoring Data and Configuring Password Policy and Configuring Security Options
8	8	2		Installing DNS and Installing active directory service
9	9	2		DHCP Server and Network Address Translation (NAT)
10	10	2		DHCP Server
11	11	2		Hypertext Markup Language (HTML)
12	12	2		HTML
13	13	2		Project Help
14	14	2		Evaluation of projects.

# COMPUTER USAGE

PCs networked in client-server architecture. Client workstations are provided with front-end software tools to provide hands on practice for different topics covered in the Lab.

Week #	Points	Written	Oral	Term Paper	Continuous	Practical
7	30	30				
12	0					
1-15	30				10	20
16	40	40				

		Readin	g Material	
Code*	Descript	ion		
* TB : Text B	Book	RB: Reference Book	ST: Standards / Codes	LN: Lecture Notes

	SUPPLEMENTARY MATERIAL
Code*	Description
OS	Slides will be used for both the Lectures and the Lab sessions. Theses slides are posted on the course page on Moodle course management system
SW	Front Page 2000 for HTML.
*PR: Periodio MD: Model	al SW: Software VT: Video Tape OS: Overhead Slide Projector AC: Audio Cassette

EDUCATIONAL RESOURCES								
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# Prepared by :

Name: Dr. Mohamed Mahmoud Sign: Date: 1/8/2010

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Name: Dr.Walid Abd-Moez Sign: Date: 1/8/2010