بسم الله الرحمن الرحيم

Republic of Iraq

The Ministry Of Higher Education

& Scientific Research

University: Baghdad

College: Science for women

Department: computer science

Stage: Fourth stage

Lecturer name: haider.M.abdulhadi

Qualification: M.Sc. in Engineer

Place of work: college of Science for women/ computer science

Syllabus Form

Instructor Name	haider.M.abdulhadi
E-mail	Haider.abdulhadi2@gmail.com
Course Title	Computer Networks
Course Coordinator	
Course Objectives	To enable students to appreciate the basic fundamentals of networking systems and how to link many processes in a networking fashion.
Course Description	The course starts with in-depth analysis of the ISO-OSI seven layers. LANs such as Ethernet, Ring, Slotted Ring, FDDI, Token Bus, and others, with their frame formats are discussed in detail. TCP/IP (Internet) layers with their frame format are all discussed in detail too.
Textbook	1. Computer Networks, fourth edition Tanenbaum, A., 2003. Understanding Data Communications and Networks, Shay, W., 1995.
References	1. Data communications, Computer Networks and OSI, Halsall, F., 1996. 2. Computer Networks and Internets, Comer, D., 1999.

Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(25%)	As(15%)	As(0%)	-	As(60%)

General Notes	Type here general notes regarding the course

Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
1		**Details of the ISO-OSI Model**	**Network devices**	
2		**Physical Layer and Framing in the Data Link Layer**	**Types of Network Communication Links**	
3		**Network and Transport Layers**	**UTP Configurations**	
4		**Error Control and Communication Protocols**	**Simple Network Designs Using a Network Simulator**	
5		**Session, Presentation and Application Layers**	**Classes of IPs**	
6		**Ethernet Network**	**Routers, Switches & Hubs ISO-OSI Layers**	
7		**Ring , Slotted Ring, CBX, FDDI and Token Bus Networks**	**Troubleshooting your TCP/IP LAN Connection**	
8		**Window Size and Flow Control**	**Troubleshooting your Internet Connection**	
9		**Data Movement Through the TCP/IP Model**	**MAC IP Relation on LANs**	

10		**Internet Names and Addresses**	**MAC IP relation with Routers**	
11		**IP routing**	**Local and Global Network Configurations**	
12		**IPvr.4**	**Design of a Simple LAN System**	
13		**IPvr.6**	**Design of a Medium size LAN System**	
14		**TCP/IP**	**Integrating WLAN Systems Using Router(s) and Access Points**	
15		**UDP**	**Design of a WAN System**	

Instructor Signature: **Dean Signature:**