



Course Weekly Outline

Course Instructor	Alyaa Hassan Zwiad				
E_mail	alyaahz.uot@gmail.com				
Title	Principles of Network & Application□				
Course Coordinator					
Course Objective	Its vocabulary put towards the general concepts for simple types and common means of communications and networks, at the present time				
Course Description	Introduction to Computer Networks, <i>The dvantages and disadvantages of computer networks</i> , Network Components: NIC, Repeater HUB, Bridge, Router, BRouter ,GATEWAY and Data Flow, Network Classification, LAN the advantages and disadvantages of each topology. Transmission Media: Cabling Summary, Wireless Transmission, and Wireless LAN Media Summary, : internetwork (Internet) , Protocol Hierarchies, Design Issues For The Layers: <i>Chapter Five</i> : Reference Model, The OSI Reference model				
Textbook	Book: “ DATA COMMUNICATIONS AND NETWORKING ” Fourth Edition, Behrouz A. Forouzan, DeAnza College With, Sophia Chung Fegan, PDF, 2007				
References					
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam
	(30%)	-----	(10%)	----	(60%)
General Notes	Type here general notes regarding the course				



Course weekly Outline

week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	2014/11/3	Introduction to Computer Networks, <i>The dvantages and disadvantages of computer networks</i>		
2	2014/11/10	Network Components: NIC, Repeater HUB, Bridge, Router, BRouter ,GATEWAY and Data Flow		
3	2014/11/17	Network Classification, LAN, MAN and WAN		
4	2014/11/24	Network topologies: Mesh, Star, Bus and Ring, the advantages and disadvantages of each topology.		
5	2014/12/1	Transmission Media: Magnetic Media, Twisted Pair, Baseband Coaxial Cable, Broadband Coaxial Cable and Fiber Optics, Cabling Summary		
6	2014/12/8	Broadband Coaxial Cable and Fiber Optics, Cabling Summary ,Wireless Transmission, Radio Transmission, Microwave Transmission, Infrared and Milimeter waves, Lightwave transmission and Wireless LAN Media Summary		
7	2014/12/15	, Microwave Transmission, Infrared and Milimeter waves, Lightwave transmission and Wireless LAN Media Summary		
8	2014/12/22	Chapter foure: Network Types (LAN: Their size, Their Transmission Technology,) , WAN AND MAN.		
9	2014/12/29	Chapter four : internetwork (Internet) , Protocol Hierarchies		

10	2015/1/5	Chapter four: Design Issues For The Layers:		
11				
12				
13				
14				
15				
16				
Half-year Break				
17	2015/2/16	<i>Chapter Five: Reference Model</i> , The OSI Reference model		
18	2015/2/23	The Relationship of Services to Protocols		
19	2015/3/2	The Physical Layer		
20	2015/3/9	The Data Link Layer		
21	2015/3/16	The Network Layer		
22	2015/3/23	The Transport Layer		
23	2015/3/30	The Session Layer		
24	2015/4/6	The Presentation Layer		
25	2015/4/13	The Application Layer		
26	2015/4/20	Data Transmission in the OSI Model, The TCP/IP Reference Model		
27	2015/4/27	Exam second semester		
28	2015/5/4	The Application Layer		
29	2015/5/11	The Transport Layer		
30	2015/5/18	The Internet Layer, The Network Layer		
31	2015/5/25	The IP V4 Packet Header		
32	2015/6/1			

Instructor Signature:

Dean Signature: