Republic of Iraq
The Ministry of Higher Education and Scintific Resrearch
Supervision and Scientific Evaluation Body

College : Shatt Al-Arab University College
Department :Computer Science
Stage: Forth
Lecturer Name : Oday Jasim Mohammed Al-Furaiji
Academic Status : Ph.D

Course Weekly Outline

Course Lecturer	**Oday Jasim Mohammed Al-Furaiji**			
e-mail	**odaymohammed@mail.ru; odayalfuraiji@sa-uc.edu.iq**			
Title	**Communication and Computer Networks**			
Course Coordinator				
Course Objective	Introduction to Computer Networks, The advantages and disadvantages of computer networks, 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: Chapter Five: Reference Model, The OSI Reference model			
Course Description	**It aims at presenting simple general concepts about networks, their types, and common means of communication at the present time**			
Textbook	Book: "DATA COMMUNICATIONS ANDNETWORKING" Fourth Edition,Behrouz A. Forouzan,DeAnz			
References	1. Routing and Switching Essentials, 6th Edition, CISCO Press 2. www.cisco.com			
Course Assessment	**Term Exam**	**Project**	**Quizzes and Attendance**	**Final Exam**
	30		**10**	**60**
General Notes				

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Week	Date	Topics Covered	Number of Hours	Notes
1	09/10/2022	Computer Networks Overview	2	
2	16/10/2022	Data Communication	2	
3	23/10/2022	Components of data communications system	2	
4	30/10/2022	Physical Network Topology	2	
5	06/11/2022	Categories of Networks	2	
6	13/11/2022	Network Standards and OSI Model	2	
7	20/11/2022	Network Criteria	2	
8	27/11/2022	Layers in the OSI Model	2	
9	04/12/2022	Summary of OSI Layers	2	
10	11/12/2022	TCP/IP Protocol Suite and addressing	2	
11	18/12/2022	Layers in the TCP/IP Protocol Suite Model	2	
12	25/12/2022	Addressing	2	
13	08/01/2023	Data and Analog Signals	2	
14	15/01/2023	Periodic and Non-periodic Signals	2	
15	22/01/2023	Composite Signals	2	
16	29/01/2023	Bandwidth	2	
17	05/02/2023	Digital Signals & Transmission Impairment	2	
18	12/02/2023	Bit Rate	2	
19	19/02/2023	Transmission of Digital Signals	2	
20	26/02/2023	Transmission Impairment	2	
21	05/03/2023	Network Performance & Transmission Media	2	
22	12/03/2023	Types of Transmission Media	2	
23	19/03/2023	Twisted-Pair Cable	2	
24	26/03/2023	Fiber-Optic Cable	2	
25	02/04/2023	UNGUIDED MEDIA: WIRELESS	2	
26	09/04/2023	Radio Waves	2	
27	16/04/2023	IP addressing	2	
28	23/04/2023	IPv4 address	2	
29	30/04/2023	Subnetting	2	
30	07/05/2023	Wired LANs –Ethernet	2	

Lecturer signature **Head of Department Signature**