

Ministry of Higher Education & Scientific Research

University of Anbar

College of Computer Science
and Information Technology

Computer Networks Systems Department



كلية علوم الحاسوب وتكنولوجيا المعلومات

وزارة التعليم العالي والبحث العلمي

جامعة الأنبار

كلية علوم الحاسوب وتكنولوجيا المعلومات

قسم أنظمة شبكات الحاسوب

Department of Computer Networks Systems

Course Description Form

Course Title: Network Protocols & Services

Course Code:

Semester: I

Level: B.Sc.

Class: 4

Academic Year: 2022/2021

Course Instructor: Assist. Prof. Dr. Ahmed Subhi Abdalkafor

Academic status:

Place of work: Career Development Center, University of Anbar

Credit Hours:

Instructor Office Hours:

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كَلِيَّةُ عِلْمِ الْحَاسِبِ وَتَكْنُولُجِيَا الْمَعْلُومَاتِ

وَزَارَةُ التَّعْلِيمِ الْعَالِيِّ وَالْبَحْثِ الْعِلْمِيِّ

جَامِعَةُ الْأَنْبَارِ

كَلِيَّةُ عِلْمِ الْحَاسِبِ وَتَكْنُولُجِيَا الْمَعْلُومَاتِ

قِسْمُ أَنْظِمَةِ شَبَكَاتِ الْحَاسِبِ

Lecture Schedule:

Weeks	Topics
Week 1	<ul style="list-style-type: none">• Network and Protocol: Definition and Overview
Week 2	<ul style="list-style-type: none">• Protocols & Services
Week 3	<ul style="list-style-type: none">• OSI Network Architecture Seven Layers Model• TCP/IP Four Layers Architecture Model• Network Architecture Models: IBM SNA
Week 4	<ul style="list-style-type: none">• Application Layer Protocols• BOOTP: Bootstrap Protocol• DHCP: Dynamic Host Configuration Protocol
Week 5	<ul style="list-style-type: none">• DNS: Domain Name System (Service) protocol• FTP: File Transfer Protocol• HTTP: Hypertext Transfer Protocol
Week 6	<ul style="list-style-type: none">• NTP: Network Time Protocol• RMON: Remote Monitoring MIBs (RMON1 and RMON2)• SMTP: Simple Mail Transfer Protocol
Week 7	<ul style="list-style-type: none">• Presentation Layer Protocols• LPP: Lightweight Presentation Protocol
Week 8	<ul style="list-style-type: none">• Session Layer Protocols• RPC: Remote Procedure Call protocol
	Midterm Exam
Week 9	<ul style="list-style-type: none">• Transport Layer Protocols• RDP: Reliable Data Protocol
Week 10	<ul style="list-style-type: none">• TCP: Transmission Control Protocol• UDP: User Datagram Protocol
Week 11	<ul style="list-style-type: none">• Network Layer Protocols• IP: Internet Protocol (IPv4)

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قِسْمُ أَنْظِمَةِ شَبَكَاتِ الْحَاسِبِ

كُلِيَّةُ عُلُومِ الْحَاسِبِ وَتِكْنُولُجِيَا الْمَعْلُومَاتِ

Week 12	<ul style="list-style-type: none">Pv6: Internet Protocol version 6Mobile IP: IP Mobility Support Protocol for IPv4 & IPv6
Week 13	<ul style="list-style-type: none">OSPF: Open Shortest Path First protocolRIP: Routing Information Protocol (RIP2)
Week 14	<ul style="list-style-type: none">Data Link Layer ProtocolsARP and InARP: Address Resolution Protocol and Inverse ARPIPCP and IPv6CP: IP Control Protocol and IPv6 Control Protocol
Week 15	<ul style="list-style-type: none">ARP: Reverse Address Resolution ProtocolSLIP: Serial Line IP Protocol

كُلِيَّةُ عُلُومِ الْحَاسِبِ وَتِكْنُولُجِيَا الْمَعْلُومَاتِ