

University of Technology
Computer Engineering Department
Academic Year 2023 - 2024
Fourth Year – (1st) Semester – (IE/NE) Branch



Code	Network Protocols	2 Hours/Week	2 Units
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Contents of Syllabus	Hours
<ul style="list-style-type: none"> ❖ Introduction <ul style="list-style-type: none"> ▪ Introduction to Internet protocol suite 	2
<ul style="list-style-type: none"> ❖ Internet Layer Protocols <ul style="list-style-type: none"> ▪ Network Protocols ▪ Internet Control Message Protocols (ICMP) 	4
<ul style="list-style-type: none"> ❖ Transport Layer Protocols <ul style="list-style-type: none"> ▪ User Datagram Protocol (UDP) ▪ Transmission Control Protocol (TCP) 	4
<ul style="list-style-type: none"> ❖ Application Layer Protocols <ul style="list-style-type: none"> ▪ Dynamic Host Configuration Protocol (DHCP) ▪ Domain Name Service (DNS) ▪ The Web and Hypertext Transfer Protocol (HTTP) 	10
<ul style="list-style-type: none"> ❖ File transfer and Electronic Mail <ul style="list-style-type: none"> ▪ File transfer and FTP ▪ Simple Mail Transfer Protocol (SMTP) ▪ Internet Message Access Protocol (IMAP) 	8
<ul style="list-style-type: none"> ❖ cryptographic network protocol <ul style="list-style-type: none"> ▪ Secure Shell (SSH) 	2

Textbooks:- NON

References:-

1. Behrouz Forouzan , TCP/IP Protocol Suite
2. Ivan Marsic, Computer Networking: Performance and Quality of Service
3. James F. Kurose and Keith W. Ross, Computer Networking: A Top-Down Approach