


Computer Engineering Department Academic Year 2023-2024 3st Year- First semester- information Engineering branch	
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CE-IT342	Computer Network	2 Hr/Week	2 Units
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Contents of syllabus	Hours
what are the Computers Networks Historical Review	2
Applications and services Types and classification	3
Client/server communication and intermediary network devices	2
Transmission media Topologies	3
Reference Models OSI Model and layers TCP/IP model	5
Random Access Techniques Pure Aloha Slotted Aloha	3
Introduction to wireless network and categories (System interconnection, Wireless LANs, Wireless WANs.)	3
Networking and Internetworking Devices (Hub – Repeater –Bridge –Gateway)	4

Addressing of IP network Classful Addressing Network Address Translation (NAT) Classless Addressing	5
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References:

Textbook:

Computer Networks, a System approach, 4th Edition, by Larry Peterson, MK 2007

TCP/IP Protocol Suite, 4rd edition, by B. A. Forouzan, McGraw Hill 2010

(focus on the internet with nice illustration animations)

