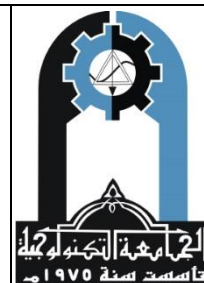


University of Technology
Computer Engineering Department
Academic Year 2023 - 2024
Fourth Year – 1st Semester – IE Branch



CE-IE443	Internet Engineering	2 Hours/Week	2 Units
Contents of Syllabus			Hours
<ul style="list-style-type: none"> ❖ Concepts: <ul style="list-style-type: none"> ▪ Infrastructure ▪ Organization of Internet 			4
<ul style="list-style-type: none"> ❖ Internet Routing <ul style="list-style-type: none"> ▪ OSPF ▪ BGP ▪ IBGP ▪ Policy Engine 			4
<ul style="list-style-type: none"> ❖ Internet Client-Server: <ul style="list-style-type: none"> ▪ Internet client server models. ▪ Internet client server infrastructure. 			2
<ul style="list-style-type: none"> ❖ Classical Internet Services <ul style="list-style-type: none"> ▪ Telnet ▪ WAIS 			4
<ul style="list-style-type: none"> ❖ Internet Service Layer Protocols: <ul style="list-style-type: none"> ▪ URL ▪ MIME ▪ Dexter Hypertext Model 			4
<ul style="list-style-type: none"> ❖ Web Systems-I: <ul style="list-style-type: none"> ▪ Web Server Client Architecture ▪ CGI mechanism ▪ Virtual Machine 			4
<ul style="list-style-type: none"> ❖ Web systems-II: <ul style="list-style-type: none"> ▪ Cooperating servers ▪ Plugins ▪ Search engines ▪ Web crawler data mining ▪ Portals 			6
<ul style="list-style-type: none"> ❖ Internet Performance & Future Technologies 			2

Textbook(s):

1- Internetworking The Grand Scheme.

Reference(s):

- 1- Internet Computer Networks & Internet, 2nd Edition, Comer, D. E., Prentice Hall, ISBN 0-13-239070-1.
- 2- Client/Server Internetworking with TCP/IP Vol-III, Comer D. E, Prentice hall, ISBN-0-13-474230-3.
- 3- Web Systems Web Server Technology, Nancy Yeager & McGrath, Morgan Kaufmann, 1996, ISBN 1-55860-376-X.
- 4- Computer Networks, 3rd Edition, A Tanenbaum, PH.

