



الخطة السنوية التدريسية للعام الدراسي ((2023-2024))

م. وسام محمود لفته	إسم التدريسي:
110113@UOTecnoogy.edu.iq , rrzmtl@yahoo.com	البريد الإلكتروني:
Computer Networks	إسم المادة:
	مقرر الفصل:
This course is to provide students with an overview of the concepts and fundamentals of data communication and computer networks. Topics to be covered include: data communication concepts and techniques in a layered network architecture, communications switching and routing, types of communication, network congestion, network topologies, network configuration and management, network model components, layered network models (OSI reference model, TCP/IP networking architecture) and their protocols, various types of networks (LAN, MAN, WAN, VLN Client/server tech. ,and Wireless networks) and their protocols. Sub netting (CIDR, VLMS, SupperSubnetting) the course is supplemented by a practical component covered in CS123 concurrently.	أهداف المادة:
<ol style="list-style-type: none">1. Introduction to data communications (components, data representation, data flow)2. Networks (distributed processing, Network criteria, physical structure, Network models, Network categories)3. layered tasks (sender, receiver, carrier, hierarchy, OSI MODEL, TCP Model) Data link4. Network Topology5. Network devices6. protocols(ARP,FTP, TELNET,DNS,UDP,NFS,RPC,SMTP,TFTP,HTTP,WAIS,)7. Transmission Media (guided media (twisted pair, coaxial cable, fiber optical cable) (Unguided Media (Radio Waves, Microwaves, Infrared)8. Error detection and correction9. Multiplexing ,(FDM,TMD,WMD)10. Network Layer/logical addressing (Address space, IPV4 Addressing, IPV6 Addressing)11. Dynamic Addressing, routable and non-routable protocols12. Subnetting , VLSM ,CIDR , Supersubnetting)	التفاصيل الاساسية للمادة:

* تملن الستمارة الكترونييا بواسطة MS-Word.

* تنشر الستمارة على موقع الجامعة الكتروني على شبكة الانترنت بصيغة ملف PDF.

					الكتب المنهجية:
1. Computer Networking, seventh edition, Behrouz A. Forouzan, 2. Fourth Edition ,Computer Networks ,ANDREW S. TANENBAUM					المصادر الخارجية:
الامتحان النهائي	المختبرات	تقييم يومي		الفصل الاول	الفصل الدراسي
60	10+5	5		25	
					تقديرات الفصل:
					معلومات اضافية:

جدول الدروس الاسبوعي – الفصل الدراسي الاول

الملاحظات	الماده العملية	الماده النظرية	التاريخ	الاسبوع
	Introduction to PT	Introduction to data communications components, data representation, data flow	6/10/2023	1
	the networks medium	distributed processing, Network criteria Twisted-Pair Cable ,Coaxial Cable Fiber-Optic Cable	13/10/2023	2
	the networks medium	physical structure, Network models, Network categories	20/10/2023	3
	the networks medium	sender, receiver, carrier, hierarchy	27/10/2023	4
	logical workspace in the packet tracer	OSI Model,	3/11/2023	5
	logical workspace in the packet tracer	TCP Model Multiplexing,(FDM,TMD,WMD)	10/11/2023	6
	logical workspace in the packet tracer	Protocols: ARP,FTP,TELNET,DNS,	24/11/2023	7
	the two Operating Modes of the Packet tracer	Protocols :UDP,NFS,RPC, Network devices	1/12/2023	8
	the two Operating Modes of the Packet tracer	Protocols: SMTP,TFTP,HTTP,WAIS	8/12/2023	9
	connecting a simple network.	Network Topologies (all types)	15/12/2023	10
	the switches	Types of addresses in IP4 Network	22/12/2023	11
		Mid -Examination	29/12/2023	12
		Final Exam		16
عطلة نصف السنة				

توقيع العميد

توقيع الاستاذ:

