

Ministry of Higher Education and Scientific Research - Iraq University of Technology Department of Computer Science Networks Management Branch



MODULE DESCRIPTOR FORM نموذج وصف المادة الدر اسية

Module Information معلومات المادة الدراسية						
Module Title	NETWORK MANAGEMENT I				Module Delivery	
Module Type	BASIC				-Theory Lecture -PracticalSeminar	
Module Code	CSCN4117	,		-Th		
ECTS Credits	2			-Pra		
SWL (hr/sem)	100					
Module Level		4	Semeste	of Delivery 1		1
Administering Department		Department of Computer Science	College	Computer Science		
Module Leader L.WISAM MAI		HMOOD LAFTA	e-mail	WISAM.N LAFTA@	WISAM.M LAFTA@uotechnology.edu.iq	
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification		MASTER	
Module Tutor None			e-mail	None		
Peer Reviewer Name			e-mail			
Review Committee Approval			Version	Number		

Relation With Other Modules العلاقة مع المواد الدر اسية الأخرى					
Prerequisite module	Network Management I	Semester	1		
Co-requisites module	None	Semester			

Module Aims, Learning Outcomes and Indicative Contents					
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية					
Module Aims	1. Tea 2. Clas 3. Tea thei 4. Tea	ching the students the types of networks. ssify hard ware and soft ware networks . ching students the types of networks and the mechanisms for using m. ching students the differences between using internal and external			
أهداف المادة الدر اسية	 protocols and explaining their static and dynamic mechanisms. 5. Explaining the seven layers of the Internet and linking them to the way data is transmitted in the network. 6. Distinguish between static and dynamic protocols, their working methods, and their strategies for transferring data. 7. Explaining the mechanism of communication in the network and knowing 				
Module Learning Outcomes مخرجات التعلم للمادة الدر اسية	 Understanding the Concept of networks. Understanding the meaning of static and dynamic protocols. Understand the working of the Internet layers and their connection to the network . Perform Classes Constant Member Functions and Constant Objects, Static Data Member and Static Function. Understanding the differences between TCP and UDP protocol . Learn how to deal with types of external protocols layers . Learn how to deal with types of internal protocols layers . Learn how to deal with types of communications. 				
Indicative Contents المحتويات الإرشادية	 Explain how to define networks. Explain how to apply best strategies in net work. Let the students see many examples about new mechanism . 				
Learning and Teaching Strategies استر اتيجيات التعلم والتعليم					
Strateg	ies	The main purpose of applying the above-mentioned mechanisms is to make the student understand accurately the mechanisms of working and implementing protocols and to overcome or avoid their problems.			

Student Workload (SWL) الحمل الدر اسي للطالب					
Structured SWL (h/sem) الحمل الدر اسي المنتظم للطالب خلال الفصل	98	Structured SWL (h/w) الحمل الدر اسي المنتظم للطالب أسبو عيا	7		
Unstructured SWL (h/sem) الحمل الدر اسي غير المنتظم للطالب خلال الفصل	92	Unstructured SWL (h/w) الحمل الدر اسي غير المنتظم للطالب أسبو عيا	5.7		
Total SWL (h/sem) الحمل الدر اسي الكلي للطالب خلال الفصل	100				

Module Evaluation تقييم المادة الدر اسية						
		Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome	
Formative assessment	Quizzes	1	10% (10)	5	LO # 1 and 3	
	Practical Seminar(Lab)					
Summative	Midterm Exam	1 hr	20% (15)	14	LO # 1 to 5	
assessment	Final Exam	3hr	70% (60)	16	All	
]	Fotal assessment		100% (100 Marks)			

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري				
	Material Covered			
Week 1	 Overview for networks Hard ware software 			
Week 2	 Introduction to networks type Software types (protocols ,communications) 			
Week 3	IOS modulesProtocolo lyares			
Week 4	Linking communication mechanisms with the Internet layers.			
Week 5	Explain how avoid congestion .			
Week 6	 Explain the main structure of the protocol and the process affected by the transport mechanism. 			
Week 7	Methods that generate network overloads and how to avoid them by controlling congestion			
Week 8	Take examples of static protocols			
Week 9	Take examples of dynamic protocols			
Week 10	Explain the main strategies in networking to make the network work efficiently			
Week 11	Explain quality of services			
Week 12	Clarifying the mechanisms and methods for using quality of service.			

Week 13	• DATA-LINK LAYER PROTOCOLS
Week 14	Error Detection and Correction
Week 15	Mid Term Exam and Preparatory Week
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)
Material Covered

Learning and Teaching Resources مصادر التعلم والتدريس				
	Text	Available in the Library?		
Required Texts		No		
Recommended Texts	 1. "Data communication and networking", Behrouz A. Forouzan, 2. "Administration CISCO QoS in IP Networks" 3. "Network Management Fundamentals", Alexander Clemm, Ph.D., 2007 Cisco Systems, Inc. 	No		
Websites				

APPENDIX

GRADING SCHEME مخطط الدر جات						
Group	Grade	التقدير	Marks (%)	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
6 6	B - Very Good	جيد جدا	80 - 89	Above average with some errors		
Success Group	C - Good	جيد	70 - 79	Sound work with notable errors		
(30 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings		
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria		
Fail Group (0 - 49)	FX – Fail	مقبول بقرار	(45-49)	More work required but credit awarded		
	F – Fail	راسب	(0-44)	Considerable amount of work required		
Note:						

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.