Department & Faculty: Department of Educational Multimedia, Faculty of Education		Page : 1 of 5		
Course Code: MPT 1403 :Introduction to Networking System in Education Total Lecture Hours: 42 hours		Semester: 1 Academic Session: 2008/2009		
Lectu Room Telep E-mai	>cturer:Assoc. Prof. Mohamad Bilal Alioom No.:C14-324>lephone No.:07-5534440 017-7770383 (HP)-mail:mba@utm.my			
Synopsis : In this course, students will discuss the role of computer in the school. The development of the computer technology and networking including hardware and software are also covered in this course. This course will enable students to experience in assembling computer hardware and commissioning wired and wireless networking in the lab. Finally, students will experienced designing, installing, testing and commissioning computer networking at site for T&L purposes as a project to this course.				
No.	Course Learning	g Outcome	Programme Learning Outcome(s) Addressed	e Assessment Methods
1.	analyze the role of	of computer in school	P01,L	01 F,T
2.	assemble, testing hardware and sol	g and commissioning computer ftware.	. P01,L0	D1 LW,Pr,F
3.	design, installing, networking	testing and commissioning cc	P05,L01	,L05 HW,PR,Pr
4.	troubleshoot com simple and comm	puter hardware and software f non problem	or P05	LW, Pr,F (T – Test; PR – Project; Q – Quiz; HW – Homework; Pr – Presentation; F – Final Exam; LW – Lab

Final Exam; LW – Work)

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STUDENT LEARNING TIME				
Teaching and Learning Activities	Student Learning Time (hours)			
	30			
 Independent Study self learning information search library search reading group discussion Lab work 	32			
 3. Project (1 individual project) information search library search Lab work 	20			
 4. Project (2 group project) information search library search designing Lab work installing on site 	30			
5. Portfolio preparation	5			
6. Exam	3			
Total	120			

TEACHING METHODOLOGY

Lecture, Demonstration, and Discussion, Co-operative Learning, Independent Study, Lab Work, Student Portfolio, Academic Forum/Debates

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WEEKLY SO			
WEEK	ТОРІС		
1	Introduction:		
	 Introduction to computer technology a 	n its architecture.	
2	 Computer hardware and software computer peripheral Operating system Application software 		
3	 Computer Hardware assembling Differentiate between main and additional hardware component Assembling computer hardware 		
4	 Installation of Operating system Selecting appropriate operating system Setting up BIOS Installation and setting up operating system 		
5	 Networking Introduction to computer networking Networking topology LAN, MAN,WLAN, WMAN WiFi, Bluetooth, infrared 		
6	 Networking hardware and software NIC, hub, router, switch, modem Copper wire, fibre optic 		
7	 LAN setup Design a network Selecting tools, cable, wire Do cabling, testing and commissioning 		
8	Mid-Semester Break		
9	 Network Operating system (NOS) NOS installation Setting up NOS for sharing of folders a 	and peripheral	

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10	 10 On site networking project Site visit to identify and analyse the suitability of the site Designing networking Prepare the project proposal including costing 				
11	On site networking projectProposal presentationDiscussion				
12	 12 On site networking project Network installation Testing and commissioning Prepare project report 				
13	PresentationProject presentationDiscussion				
14-15	 Designing WAN (based on school environment) Identify topology Identify equipment and cost Propose installation plan Presentation and discussion 				
16-18 Revision Week and Final Examination					
 REFERENCES : 1. Scott Mueller (2005). Upgrading and Repairing PCs (Que) 2. Baharuddin Aris. <i>et. al</i> (2001). Sistem Komputer & Aplikasinya (Venton) 3. Anurag Kumar, D. Manjunath, Joy Kuri (2008). Wireless networking. (Morgan Kaufmann) 4. Comer, Douglas E. (2005). Hands-on networking with internet technologies. (Upper Saddle River) 5. Hekmat, Ramin. (2006). Ad-hoc networks : fundamental properties and network topologies. (The Netherlands) 					

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GRADING:

(Provide details on the allocation of marks and the time schedule for all quizzes, tests, assignments, etc.)

Evaluation	Status	Percentage (%)
Assignment 1	Individual	5
Assignment 2 (Proposal)	Group	10
Assignment 2 (Presentation)	Group	5
Assignment 3 (Network Installation Project)	Group	35
Assignment 3 (Presentation)	Group	5
Test	individual	10
Final Exam	Individual	30
Total		100