

UNIVERSITI TEKNOLOGI MARA CSC134: COMPUTER AND INFORMATION PROCESSING

Course Name (English)	COMPUTER AND INFORMATION PROCESSING APPROVED			
Course Code	CSC134			
MQF Credit	3			
	5			
Course Description	This course exposes the students on the essentials of computing and deals with the general computer literacy. Understanding the computer is becoming more essential to be productive and successful in today's world. The course exposes fundamental concepts in a manner that emphasizes their importance from the user's point of view. The computer is transforming the way we learn, communicate and do business. Besides providing an overview of computers – what they are doing and what they can do, this course also covers the aspects including computer security and ethics, modern trends and issues. The students are expected to have hands-on experience of using popular application packages.			
Transferable Skills - Use application to real situation for example using Ms Office package - Ms Word, M Excel & Ms Powerpoint. - Be able identify the computer components and technology				
Teaching Methodologies	Lectures, Blended Learning, Lab Work			
CLO	 CLO1 Comprehend the concept, components and processing of computer, communication, security, and ethics in the industry. CLO2 Follow the use of current business software for various application in the industry. CLO3 Discover the current issues in computer, communication technologies and security in the industry. 			
Pre-Requisite Courses	No course recommendations			
Topics				
1. Introduction 1.1) Introduction to Computer 1.2) Component of a computer 1.3) Types of computers 1.4) Computer in society 1.5) Information systems 1.6) Your future, careers and opportunities 2. The system unit				
 2.1) Electronic Data and Instructions 2.2) System Board 2.3) Microprocessor 2.4) Memory 2.5) System Clock 2.6) Expansion Slot and Cards 2.7) Bus Lines 2.8) Ports and Cables 2.9) Power Supply 				
 3. Input and output 3.1) Input Devices: keyboard, pointing devices, scanning devices, image capturing devices, audio-input devices 3.2) Biometrics authenticates devices 3.3) Output Devices: monitors, printers, audio-output devices 3.4) Combination of Input and Output Devices 				

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4. Secondary storage				
4.1) Floppy Disks 4.2) Hard Disks				
4.3) Optical Disks				
4.4) Other types of Secondary Storage				
5. System software 5.1) Types of System Software: operating system (OS), utilities, device drivers, and language translators 5.2) Functions, features and categories of OS 5.3) Most popular OS Used Today 5.4) Types of Utilities				
 6. Application software 6.1) Types of Basic Application Software: word processor, spreadsheet, DBMS, graphic presentation and browser 6.2) Integrated Packages and Suite packages 6.3) Sharing data between application 6.4) Types of Specialized Application Software: Multimedia, Web Authoring, Graphic Programs, Artificial Intelligence and Virtual Reality 				
 7. Internet and Web 7.1) Internet Services: communicating (e-mail, teleconferencing, discussion group); shopping (e-payment, e-commerce); entertainment (games, movie previews); researching 7.2) Internet Access: ISP and Online Services 7.3) Web Utilities 				
8. Communications and Networking 8.1) Communication systems: Sending and receiving devices, communication channels, connection devices and data transmission specifications. 8.2) Network terms				
8.3) Types of network: LAN, MAN, WAN and WLAN8.4) Network architecture: topology and strategy8.5) Organizational Internet: Intranet, Extranet and Firewall				
9. Privacy,security, Ethics and Ergonomic				
9.1) Privacy: how to protect privacy and personal responsibility9.2) Security: threats to computer security, computer criminal, computer crime, and measure of protections				
9.3) Ethics issue9.4) Ergonomics: physical health, mental health, green PC				
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 10.36) - View: Master slide, slide sorter and slide outline 10.37) - Slide show tools: current slide, previous, next and go to slide 10.38) - Printing: option (handout, slide and notes), properties, paging, page setup and margin
10.39) 10.40) Database Management Software (Optional)
10.41) - Create database
10.42) - Data Entry: tables, fields, records and primary key
10.43) - Add, change, delete data in a database
10.44) - Create relationship
10.45) - Sort and retrieve data
10.46) - Create and modify a query, form and report: wizard
10.47) - Print report based request
10.48)
10.49) Publication Software – (Optional)
10.50) - Creating & Editing a Publication
10.51) - Working with fonts and styles
10.52) - Change design and layout
10.53) - Working with pictures and word art, table
10.54) - Creating various publications – Newsletter, Brochure, Postcard, Business Card etc
10.56) Web Authoring Tools – (Optional)
10.57) - Create and design homepage
10.58) - Hyperlinks and Hypertexts
10.59) - Download files, copy images and transfer files
10.60) - Publishing web
10.61) - Upload web by using free servers 10.62)
10.63) Other relevant applications/tools – Web 2.0, SPSS, Math LAB etc

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of				
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assignment	10%	CLO3
	Group Project	Lab Project	10%	CLO2
	Lab Exercise	Lab Exercise	10%	CLO2
	Test	Test 1(Ch 1 - 5)	10%	CLO1
	Test	Test 2 (ch 6 - 9)	10%	CLO1

Reading List	Recommended Text	Gary Shelly,Misty Vermaat 2012, <i>Discovering Computers Fundamentals: Your Interactive Guide to the Digital World</i> , 8th Ed., Cengage Learning [ISBN: 1111530459]	
	Reference Book Resources	Deborah Morley,Charles Parker 2014, <i>Understanding Computers: Today and Tomorrow, Introductory</i> , 15th Ed., Cengage Learning [ISBN: 9781285767307]	
		Timothy O'Leary,Linda O'Leary 2013, <i>Computing Essentials</i> 2014 Complete Edition, McGraw-Hill/Irwin [ISBN: 0073516864]	
		Alan Evans,Kendall Martin,Mary Anne Poatsy 2015, <i>Technology in Action Complet</i> e, 10 Ed., Prentice Hall [ISBN: 0133949567]	
		Deborah Morley,Charles Parker 2014, <i>Understanding Computers: Today and Tomorrow, Comprehensive</i> , 15th Ed., Cengage Learning [ISBN: 1285767276]	
		Lecturers of TMSK, UiTM Shah Alam., <i>IT Kini</i> , McGraw Hill.	
Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		