

SUMMARY OF INFORMATION ON EACH COURSE/MODULE

1.	Name of Course/Module/Su	bject			Introd	uction to	o Com	puting	g Teo	chnol	ogies	
2.	Course /Subject Code				Introduction to Computing Technologies PCT0101							
3.	Status of Subject				Core							
4.	MQF Level/Stage Note: Certificate – MQF Level 3 Diploma – MQF Level 4 Bachelor – MQF Level 6 Masters – MQF Level 7			Foundation								
5.	Version (state the date of the last Senate approval)				December 2013							
6.	Pre-Requisite/Requireme		gistratio	n	n NIL							
7.	Name(s) of academic/tea	ching sta	ff	Khairi Syazwan Bin Dollmat Timothy Yap Tzen Vun								
8.	Semester and Year offere				Trime							
9.	Objective of the course/module/subject in the p To equip students with knowledge of computin software components.				ng techno							
10.	Justification for including To provide students with					e and co	mpute	r assei	mbly	skill	s.	
11.	Subject Learning Outcomes: LO1: Identify suitable computing technologies to be used based on various applications Domain Cognitive				Level 2							
	LO2: Assemble computer hardware and software components	: Assemble computer Psychomoto ware and software										
12.	Mapping of Learning Out									•	507	D00
	Learning Outcomes	PO1	PO2		PO3	PO4	PC)5	PO	6	P07	PO8
	LO1	X	X								X	
10	LO2	X d Types:	X								<u> </u>	
13.	Assessment Methods and Method and Type	a rypes :		Г	escription/Details Percentage							
	Presentations	Cas	e studia		uring lab, class activities 60				aye			
	Assignments		tten rep		40							
14.	Details of Subject	1										
	Topics (eg:			Mode of Delivery : Lecture, Tutorial, Workshop, Seminar, etc.) Indicate allocatio SLT (lecture, tutorial, lab) for each subtopic				0				
				Le			Lab (Hours)		SLT (Hours)			
	1. Introduction to Computers The components of a computer. Computer software. Personal Computers. Mobile computers and mobile devices. Game consoles.			2			2			2	4	
	Servers. Mainframes. Em Computers											

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2. The Components of the System Unit Processor, Data presentation, Memory, Expansion slots and adapter cards. Parts and connectors. Buses. Bays. Power supply.	2	2	4
3. Application Software Business software. Graphics and multimedia software. Software for home and personal use. Web applications.	2	2	4
4. The Internet and World Wide Web Evolution of the Internet. The World Wide Web. E-Commerce. Internet services: e-mail, mailing lists, instant messaging, chat rooms, VoIP, newsgroups and message boards, ftp. Netiquette.	2	2	4
5. Input and Output The keyboard. Mouse. Pointing devices: trackball, touchpad, pointing stick. Touch screens and touch-sensitive pads, Pen input. Game controllers. Input for smart phones, Voice input. Video input. Scanners and reading devices. Biometric input. Terminals. Display devices. Printers. Speakers. Headphones.	2	2	4
6. Storage Hard disks. Flash memory storage. Cloud storage. Optical discs. Tape. Magnetic stripe cards and smart cards. Enterprise storage	2	2	4
7. Operating Systems and Utility Programs Operating system functions. Stand-alone operating systems. Server operating systems. Embedded operating systems. Utility programs: file manager, search utility, disk cleanup, disk defragmenter, backup and restore utilities, personal firewall, antivirus programs, internet filters, media player, etc. Console commands.	2	2	4

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	8. Communication and		2	2		4
	Types of Data Net					
	communication	standards.				
	Communication over	the telephone				
	network. Communic	cation devices.				
	Home networks. Physi	ical transmission				
	media. Wireless transm	ission media				
	9. Database Managem	ent	2	2		4
	Databases, data and i					
	hierarchy of data. Main					
	processing vs Datab					
	management systems.					
	object relational databa					
	10. Computer Secur		2	2		4
	Ethics and Privacy	ity and Saicty,	2	2		т
	Internet and network a	ttacks Hardware				
	theft. Software theft. I					
	System failure. Wireles					
	•	-				
	concerns of computer					
	society. Information pr	•	2	2		4
	11. Programming 1	0 0	2	2		4
	Program Developmen					
	Low level language					
	languages.	Object-oriented				
		ages. Program				
	development tools.	Web page				
	development. The proc	esses of program				
	development.					
	12. Enterprise Compu		4	4		8
	Information systems i					
		hnologies and				
		ortals, data				
	warehouses, intranet,	·				
		hitecture, etc.				
	Virtualization and cl	oud computing.				
	Enterprise hardware. 1	High-availability,				
	scalability and interope	rability. Backup				
	13. Computer	Careers and	2	2		4
	Certification					
	Careers in the con	nputer industry.				
	Preparing for a career	in the computer				
	industry. Certifications: Application software, operating system,					
	programmer/developer,	hardware,				
	networking, security, et					
	<u>J</u> .		28	28		56
15.	Total Student				To	otal Guided and
	Learning Time (SLT)		Face to Face		Inde	pendent Learning
	Lecture	28			56	

	Tutorials					
	Laboratory/Practical	28			56	
	Presentation				18	
	Assignments		36			
	Mid Term Test					
	Final Exam					
	Sub Total	56	56			
	Total SLT		166			
16.	Credit Value		4 (66 / 40 = 4.15)		
17.	Reading Materials :					
	Te	extbook		Reference Materials		
	Shelly, G. B., & Verma	aat, M. E. (2011).		Englander, I., (2009). The Architecture of Computer Hardware, Systems Software, &		
	<u> </u>	2011: Complete. USA:				
	Course Technology.			Networking: An Information Technology Approach (4th ed.). USA: Wiley.		
					•	
				Parsons, J. J., & Oja, I concepts - illustrated i Cengage Learning.	D. (2010). Computer ntroductory (7th ed.). USA:	

- 18. Appendix (to be compiled when submitting the complete syllabus for the programme) :
 - 1. Mission and Vision of the University and Faculty
 - 2. Programme Objectives or Programme Educational Objectives
 - 3. Programme Outcomes (POs)
 - 4. Mapping of POs to the 8 MQF domain
 - 5. Mapping of Los to the POs
 - 6. Summary of the Bloom's Taxonomy's Domain Coverage in all the Los in the format below:

DOIGHT:								
	Learning Outcomes	Bloom's Taxonomy Domain						
Subject	(please state the learning 0utcomes)	Affective	Cognitive	Psychomotor				
ABC1234	Learning Outcome 1							
	Learning Outcome 2							
	Learning Outcome 3							
	Learning Outcome 4							
DEF5678	Learning Outcome 1							
	Learning Outcome 2							
	Learning Outcome 3							
	Learning Outcome 4							

- 7. Summary of LO to PO measurement
- 8. Measurement and Tabulation of result for LO achievement
- 9. Measurement Tabulation of result for PO achievement

Mapping Learning Outcome to Assessment

No.	Assessment	LO1	LO2
A1	Presentations (100%)	X	
		(100%)	
A2	Assignment (40%)		X
			(100%)

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