

COURSE INFORMATION

1	Name of Course									Com	puter	Syste	ems 8	& Applications				
2 .	Course Code							Computer Systems & Applications DCS5018										
3 .	Type of Course							Core for Diploma in Information Technology										
4 .	(e.g. : Core, major, elective etc.) Synopsis									This course educates students the basics and use of computers in their everyday llife. The course includes understanding the operations of a computer, application software, system software, computer networks, programming and databases. Students will also acquire practical skills in office productivity software.								
5 .	Version (State the date of theSenate's date)	approv	val - p	reviou	s and	the cu	rrent a	ıpprov	al	Current: June 2017 Previous: ADC 0915 Senate 181 Nov 2015 New version : ADC Oct 2017 Special Senate Nov 2017								
6 .										Liew Yee Ping, Mardhiyah Ahmad, Norihan Hamzah, Nurul Aqma Salleh, Tan Su-Mae								
	. Semester and Year Offered								Semester 1 Year 1									
									4 None									
10 .	Objective of the course in To provide students with known automation software and the students with th	nowle hird-g	edge Jener	on ted	chnol progr	ammi	ng lar	nguag				rld, no	ot to r	mention equip st	udents with skill	in using office		
11 .	Justification for includin This subject covers the fur basic level. Students are a skills in word processing,	ndam Ilso in	ental: trodu	s of co	ompu o the	ters ir funda	n ever ament	ryday als of	prog	ramm	ning a	nd da	tabas	ses. Students are				
12 .	Course Learning Outcom											C	oma	in	Level			
	CLO1: Explain comput use them safely	and	efficie	ently i	n dail	y acti	vities					С	ogniti	ve	2			
	CLO2: Apply basic programming knowledge and computing using automation software to enhance work efficient Apply basic programming knowledge and computing using office automation software to enhance work efficiency. CLO3: Discuss information technology knowledge or ideas team, and share it with other peers.					cienc uting	у.						3					
						leas a	as a	Affective 3										
13 .	Mapping of the Course L	.earni	ing O	utco	mes 1	o the	Prog	ramr	ne Le	earning Outcomes, Teaching Methods and Assessment:								
	Course Learning Outcomes (CLO) (Must tally with CLOs in item 12)	PLO	P L O	P L O	P L O	P L O	P L O	P L O	P L O	Teaching Methods					Assessment Method			
	CLO1	1	2	3	4	5	6	7	8	Lecti	ure/Ti	e/Tutorial Quiz, Midterm				Гest, Final Exam		
	CLO2						✓			Lab					Lab Test			
	CLO3 Total	1				1	1			Indica relev	Group Assignment Discussion Assignment/Pres Indicate the relevancy between the CLO and PLO by ticking "relevant box (This description must be read together with star 2.2.2 in Area 2 – pages 16 & 18 of COPPA 2.0)					g "√" the appropriate		
14 .	Transferable Skills: Communication, leadershi																	
15 .		istribution of Student Learning Time (SLT) Course Content Outline				**C	:LO	Teaching and Learning Activities Guided Learning (F2F)* *L *T *P *O				Guided Learning (NF2F)*	Independent Learning (NF2F)*	Total SLT				
	Introduction to Computers Basics of computer which include the four basic operations that a computer performs; The concept of bits and bytes; Various types of computers, input devices, and output devices; The understanding of CPU and RAM as well as types of storage technologies; Ergonomics in computing context.					.01	3	1	•		1	3	8					

2	Using the Internet The origin of the Internet and how the Internet works; Various Internet services, including forms of Internet communication; The usage of Web browser to access the Web and the usage of search engines to search the Web.	CLO1	2				2	4
3	Application Software Productivity software for home and office applications; Business software for home and office as well as media software for home users; The concept of buying software and software versions; The differences between shareware and freeware; The methods on how to install and uninstall as well as start application.	CLO1	2				2	4
4	System Software Types of operating systems as well as the functions of the operating system; The four important steps in boot process; The usage of the Windows desktop features; Various utility programs in the computer system.	CLO1	3	1		2	2	8
5	System Unit CPU subsystem which consists of components of CPU and components on the motherboard; The memory subsystem, storage subsystem, video subsystem and audio subsystem; The assessment of system reliability.	CLO1	3	1		2	2	8
6	Networking The advantages and disadvantages of computer networking; The various Internet connection options; How to configure home network equipment; How to connect devices to networks; How to configure software for home network.	CLO1 CLO3	3	1			4	8
7	Digital Lifestyle: Managing Digital Data and Devices The digital lifestyle and the advantages of digital format in our daily lives; How cellular works in telecommunication systems; Cellphone or Smartphone components; The file formats for image, digital music and video.	CLO1 CLO3	2				2	4
8	Computer Security Definition of cybercrime and cybercriminal; The types of cybercrime and the types of computer threats; This topic also introduces ways to protect digital and computing assets and ways to manage online annoyances; Ways to protect personal information and backup data.	CLO1 CLO3	3	1		2	2	8
9	Software Programming The steps in the system development life cycle, the steps in the program development life cycle, the generations of programming languages, A compiler and an interpreter, the various programming languages, how to select the right programming language.	CLO1	2				2	4
10	Databases & Information Systems Discuss the advantages of using databases; Define the main components of a database; Explain the major types of databases; Know the main operations of a database management system; Identify the types of relationships; Describe the categories of information systems; Explain data warehouses, data marts and data mining.	CLO1	2				2	4
1	Word Processing software Create, edit and modify text-based documents such as letters, resume and reports.	CLO2			6		6	12
2	Presentation software Create good multimedia presentation slides using layouts, design template, animations and transitions.	CLO2			4		4	8
3	Spreadsheet software Create simple reports and charts and apply formulas and functions.	CLO2			6		6	12

Programming software Learn to write and execute simple programming code that allow them to input variables and view output of the programs.	CLO2		4				4	8				
							Total SLT	100				
	SUMMATIV	E ASS	ESSMI	ENT								
1. Continuous Assessment			Pe	rcen	ntag	ge %	Total SLT					
Quiz				5	%			4				
Lab Test				20)%			14				
Assignment				10)%		8					
Midterm Test				15	5%			12				
	Tota	I SLT f	or Co	ntinu	JOU	ıs Assessment	38					
2. Final Assessment			Pe	rcen	ntac	ge %		otal SLT				
E: 15							F2F	ILT				
Final Exam)%		2	20				
	Total SLT f	or Fina	I Asse	essm	nen	nt (F2F + NF2F)		22				
Grand Total				10	0%	ı		160				
**Indicate the CLO based on the CLO's numbering in	Item 12.											
*L= Lecture, *T= Tutorial, *P= Practical, *O= Others, F2	2F*= Face to	Face,	NF2F*	= No	on F	Face to Face						
16 . Identify Special Requirement to Deliver the Course (e.g. Computer lab, Microsoft Office, Dev C++	., software, ı	nursery	, com	pute	r la	b, simulation re	oom):					
17 . Main References:						•						
Evans, A., Martin, K., & Poatsy, M. A. (2015). Technology	in Action Co	mplete	Pren	tice I	Hall	I. (12th Edition)						
18 . Additional References:												
LaBerta, C. (2011). Computers Are Your Future Complete		•		,								
Beekman, G., & Beekman, B. (2011). Digital Planet: Tome	orrow's Tech	nology	and Yo	ou, C	Com	nplete. Prentice	Hall. (10th Edition	on)				