

School/Faculty:	aculty of Computing, UTM					
Program name:	achelor of Computer Science					
Course code:	SECP1513	Session/Semester	20242025/1			
Course name:	Technology & Information System	Pre/co requisite (course name and code, if applicable):				
Credit hours:	3					

Course synopsis	As a primer subject, this course will introduce st technology (IS/IT) and its uses at home and worl hardware, software, network and communicatic equipped with basic skills in handling PC installat work in the labs, which shall comprise a major p industry visits and talks as a part of work-based expose students to a real working environment, increase engagement between university and in explore the requirements and job specifications	k. Various ons will be tion and plart of the learning. E get knowldustry. The	aspects of IS/IT of introduced. Stud roductivity tools study. This class both industry visiledge from the industry also not student also not s	encompassing dents will be via practical also conducts ts and talks will ndustry and
Course coordinator (if applicable)				
Course lecturer(s)	Name	Office	Contact no.	E-mail (@utm.my)
Course recturer(s)	Dr. Noor Hidayah Zakaria			noorhidayah.z

Mapping of the Course Learning Outcomes (CLO) to the Programme Learning Outcomes (PLO), Teaching & Learning (T&L) methods and Assessment methods:

No.	CLO*	PLO **(MQF Cluster Code)	***Taxonomies and ****generic skills	T&L methods	*****Assessme nt methods
CLO1	To describe the components of computer hardware and the applications of computer software.	PLO1	C1	Q, T, A, E- portfolio	
CLO2	To distinguish between various types of information systems.	PLO6	C2	Lecture, active learning	A, PR, Pr, T
CLO3	To briefly outline the requirements and job specifications for a career in IT.		C 5	Lecture, active learning	A, Pr

This is the basic mapping required for the CI. Any added information is allowed (extra columns for weight or other elements) provided this is made consistent for all CI at program/school/faculty level.

*Up to 5 CLO

Refer ***Taxonomies of Learning and ****UTM's Graduate Attributes for UG and Generic Skills for PG, where applicable for measurement of outcomes achievement

*****T – Test; Q – Quiz; HW – Homework; Asg – Assignment; PR – Project; Pr – Presentation; F – Final Exam etc.

**MQF Cluster Code

C1 = Knowledge & Understanding, C2 = Cognitive Skills, C3A = Interpersonal Skills, C3B = Interpersonal Skills, C3C=
Communication Skills, C3D = Digital Skills, C3E = Numercy Skills, C3F = Leadership, Autonomy & Responsibility, C4A = Personal Skills, C4B = Enterpreneurial Skills, C5 = Ethics & Professionalism

Details on Innovative T&L practices:

No.	Туре	Implementation
1	Active learning	Conducted through in-class activities, for example Two- Minute Paper, Think-Pair Share, Note Checking, Reflection and JIGSAW.
2	Project-based learning	Each student is required to complete his/her own e-portfolio. The purpose of this project is to enable students to collect all evidences of his/her learning journey over time during study in UTM. This would be a great benefit to the students when they applying jobs after graduating from the university and as a part of lifelong learning.
3	Industry visit	Industry visit is an approach of work-based learning and be a part of NALI (New Academic Innovative Learning). From industry visit, students can clearly understand the role of ICT in various types of organisations e.g. ICT as core business of organizations or ICT as a business enabler. In addition, the students can identify the requirements and job specifications for a career in ICT.

4	Industry talk	Industry visit is an approach of work-based learning and be a part of NALI (New Academic Innovative Learning). From industry talk, students can clearly understand the role of ICT in various types of organisations and current trend in industry such as IR4.0, block chain. In addition, the students can identify the requirements and job specifications for a career in ICT.
5	Lab work	Students are required to assemble and reassemble computer hardware and this lab work will be done in small groups.

Transferable skills (generic skills learning in course of study which can be useful and utilised in other settings):

Presentation and communication

Student learning time (SLT) / Effective Learning Time (ELT) details:

						Lea	rnin	g an	d Te	aching Ac	tivities		
Week/	Course Content	CLO*			Fac	ce-to-f	ace	(F2I	F)		Non F2F Independent Learning		TOTAL ELT
Meeting	Outline and Subtopics	CLO	Physical		Online (Synchronous)				Online (Asynchronous)	Others	LLI		
			L	T	Р	0	L	T	Р	0			
Week 1	Overview of: a. Course Information b. E-portfolio c. Design Thinking Project	CLO1	3									1	4
Week 2	Chapter 1: Emerging Technology in ICT	CLO1	3									1	4

Week 3	Chapter 2: Hardware Jigsaw/Quiz (Subject to change)	CLO 1	3					1	4
Week 4	Chapter 2: Hardware Jigsaw/Quiz (Subject to change)	CLO 1	3					1	4
Week 5	Chapter 3: Software	CLO1	3					1	4
Week 6	Chapter 3: Software Assignment 1	CLO1, CLO3	3					1	4
Week 7	Chapter 4: Information Systems & Methodology Assignment 2	CLO1, CLO3	3				2	1	6
Week 8	MID TERM BREAK								
Week 9	Chapter 5: Databases and Data Analytics	CLO1, CLO2	3					1	4
Week 10	Chapter 5: Databases and Data Analytics	CLO1, CLO2	3					1	4

							SUB-TOTAL		64
Week 16	Chapter 8: Cloud Computing Eportfolio & Project Report Submission	CLO1 & CLO2	3					5	8
Week 15	Chapter 8: Cloud Computing Test	CLO1 & CLO2	3					5	8
Week 14	Chapter 7: Privacy, Security, and Ethics Project Pitch & Report Submission	CLO1, CLO2	3					1	4
Week 13 29.12.24	Chapter 7: Privacy, Security, and Ethics Assignment 4	CLO1, CLO3	3					1	4
Week 12	Chapter 6: Networks and Communications Assignment 3	CLO1, CLO2	3				2	1	6
Week 11	Chapter 6: Networks and Communications	CLO1, CLO2	3					1	4

		Face-to	o-Face (F2F)	NF2F Independent Lea Assessme	nt	TOTAL
Continous Assessment	%	Physical	Online	Online	Others	ELT

			Titysical	(Synchronous)	(Asynchronous)	Others	
	T						
1	Assignment 1 (Format: Poster)	7				7	7
2	Assignment 2 (Format: Reflection)	10				10	10
3	Assignment 3 (Format: Poster)	7				7	7
4	Assignment 4 (Format: Academic Writing)	10				10	10
6	E-portfolio (Github)	20			12	8	20
					SUB-TOTAL ELT	:	54

			Face-to	o-Face (F2F)	NF2F Independent Lear Assessmen		
	Summative Assessment	%	Physical	Online (Synchronous)	Online (Asynchronous)	Others	TOTAL SLT
1	PC Assemble (Quiz/Jigsaw)	6	10				10
2	Design Thinking (Low Fidelity Prototype)	20			5	8	13
3	Mid Term (Ch1-Ch7)	20			1	8	9
					SUB-TOTAL ELT	:	32
					ELT for Assess	sment:	86
					GRAND TOTAL	ELT:	150
Α		ysical Component	t 34.67				
В	% ELT for	Online & Inde	ependent Lear	ning Component :	: 65.33		
С			%ELT for O	nline Component:	14	.67	

D	% ELT for All Practical Component:	0.00
D1	% ELT for F2F Physical Practical Component:	0.00
D2	% ELT for F2F Online Practical Component:	0.00
	e tick (/) if this course is Industrial Training/ Clinical Placement/ Practicum using 50% of ive Learning Time (ELT)	

Identify special requirement or resources to deliver the course (e.g., software, nursery, computer lab, simulation room etc)

Computer Lab(PC Assemble)

References (include required and further readings, and should be the most current)

Vermaat, M. E., Sebok, S. L., Freund, S. M., Campbell, J. T., & Frydenberg, M. (2017). Discovering computers© 2018: Digital technology, data, and devices. Cengage Learning. USA

Other additional information (if applicable)

Academic honesty and plagiarism: (Below is just a sample)

Assignments are individual tasks and NOT group activities (UNLESS EXPLICITLY INDICATED AS GROUP ACTIVITIES)
Copying of work (texts, simulation results etc.) from other students/groups or from other sources is not allowed. Brief quotations are allowed and then only if indicated as such. Existing texts should be reformulated with your own words used to explain what you have read. It is not acceptable to retype existing texts and just acknowledge the source as a reference. Be warned: students who submit copied work will obtain a mark of zero for the assignment and disciplinary steps may be taken by the Faculty. It is also unacceptable to do somebody else's work, to lend your work to them or to make your work available to them to copy.

Other additional information (if applicable)

Disclaimer:

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While every effort has been made to ensure the accuracy of the information supplied herein, Universiti Teknologi Malaysia cannot be held responsible for any errors or omissions.

ELT = (Theory + Industrial Guidance + Assessment) x 50%

Total of credit for LI/Practical = ELT/40 Notional Hours

Note: For ODL Programme: Courses with mandatory practical requirement imposed by programme standards or any related standards can be exempted from complying to the minimum 80% ODL delivery rule in the SLT.

Prepared by:		Certified by:
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Signature:		Signature:
Date:	10/1/2024	Date: