1	Name of Course :	Systems Development Methods	Version Number:	VD1
	Course Code :	CT046-3-2	Effective Date:	01 Sep 2019
2	Synopsis :	This module will build upon the Systems Analysis and Design module studied at level 1. The module discusses how to use appropriate methods, tools and techniques to analyse, design and implement a system that utilises a database. Aspects of interface design relevant to this type of system will be considered.		
3	Name(s) of academic staff :	**Sivananthan Chelliah,** Zailan Arabee, Kesava Pillai, Lai Chew Ping, Salasiah binti Sulaiman, Nur Amira		
4	Semester and Year offered :	See Programme Specification (Module may be delivered on multiple programmes and therefore in different years/semesters)		
5	Credit Value :	3		
6	Prerequisite/co-requisite: (if any)	CT026-3-1 Systems Analysis and Design or equivalent		
7	Course Learning Outcomes (CLO) : At the end of the course the students will be able to: (example) - explain the basic principles of immunisation (C2,PLO1)			
	CLO1	Explain the purpose, structure and scope of modern Information System Development Methodologies(C2, PLO1)		
	CLO2	Construct the different views of a system using tools and techniques (C3, PLO2)		
	CLO3	Demonstrate appropriate analysis, design and implementation techniques through a simple prototype (A3,PLO4)		

8 Mapping of the Course Learning Outcomes to the Programme Learning Outcomes, Teaching Methods and Assessment : Please select the learning outcome Domain(LOD) for each PLO in the cells above it. E.g PLO1- Knowledge and Understanding, PLO2- Cognitive Skills, PLO3-Practical Skills

Course Learning Outcomes (CLO)	Programme Learning Outcomes (PLO)												Teaching Methods	Assessment
	Knowledge and Understanding, Cognitive Skills	Cognitive Skills,	Practical Skills,	Interpersonal Skill,	Communication skill,	Digital Skills,	Numeracy Skills,	Leadership, autonomy and responsibility,	Personal Skills,	Entrepreneurial Skills,	Ethics and professionalism			
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12		
CLO 1	✓												Lecture	Final Exam
CLO 2		✓											Tutorial	Group Assignment (Problem Analysis)
CLO 3				✓									Tutorial Groupwork	Group Assignment (Development Methodology & Implemention techniques)

Indicate the relevancy between the CLO and PLO by ticking "√" the appropriate relevant box.
(This description must be read together with Standards 2.1.2 , 2.2.1 and 2.2.2 in Area 2 - pages 16 & 18)

9	Transferable Skills (if applicable) (Skills learned in the course of study which can be useful and utilized in other settings)	1	Cognitive Skills,
		2	Interpersonal Skill,
		3	
		4	
		5	

10 **Distribution of Student Learning Time (SLT)**

Course Content Outline	CLO*	Teaching and Learning Activities						SLT
		Guided Learning (F2F)				Guided Learning (NF2F) eg: e-learning	Independent Learning (NF2F)	
		L	T	P	O			
Information System Development	1	4					4	8
Structured Methodologies	1	2					2	4
Agile Methodologies	1	2					2	4
Process Oriented Methodologies	1	2					2	4
People Oriented Methodologies	1	2					2	4
Methodology Comparisons	1	2					2	4
System Development Planning	1	4					4	8

Systems Analysis	1	4					4	8
Systems Design	1	2					2	4
System Implementation	1	2					2	4
System Deployment	1	2					2	4
Group Discussion and Activity:-Practical applications of System Development -	2		3				6	9
Applications of Methodology	2		3				6	9
Activity:- Tools and Techniques used in System Development Methods	3		4				8	12
Group Work:-Discussion and team work - prototype development - case discussion	3		4				12	16
								0
								0
								0
								0
								0
							Total	102

	Continuous Assessment	Percentage (%)	F2F	NF2F	SLT
1	Group Assignment (Problem Analysis) - 750 words-Week 6	20	-	3	3
2	Group Assignment (Development Methodology) - 1500 words - Week 12	30	1	6	7
3					0
4					0
5					0
6					0
7					0
				Total	10

	Final Assessment	Percentage (%)	F2F	NF2F	SLT
1	Final Exam	50	2	6	8
2					0
3					0
4					0
5					0
				Total	8

****Please tick (V) if this course is Latihan Industri/ Clinical Placement/ Practicum/ WBL using Effective Learning Time (ELT) of 50%** ☐ **GRAND TOTAL SLT** **120**

L = Lecture, T = Tutorial, P= Practical, O= Others, F2F=Face to Face, NF2F=Non Face to Face
**Indicate the CLO based on the CLO's numbering in Item 8.*

11	Identify special requirement to deliver the course (e.g: software, nursery, computer lab, simulation room, etc)	Ms Project, Ms Visio, Ms Office and Protyping Tools or equivalent

12	References :(include required and further readings, and should be the most current)	Essential Reading H.J. Rosenblatt (2017), Systems Analysis and Design 10th Edition, Course Technology; ISBN: 12851713349 R. Pressman (2017), Software Engineering: A Practitioner's Approach 8th Edition, McGraw-Hill Education; ISBN: 0078022126 Further Reading A. Dennis, B.H. Wixom and D. Tegarden (2017), Systems Analysis and Design: An Object Oriented Approach with UML 5th Edition, McGraw-Hill; ISBN: 1118804678 K.E. Kendall, J.E. Kendall (2014), Systems Analysis and Design 9th Edition, Pearson; ISBN: 0133023443 *Note: Older references are indispensable as of Q3 2019
13	Other additional information :	