1	Name of Course:	f Course: Mobile and Wireless Technology											Version Number:	VD1	
	Course Code :	CT090-3	-2											Effective Date:	01 Sep 2019
2	Synopsis:	This module will cover the various area of mobile and wireless technology, WLAN System Architecture and Design, WLAN Security, and Broadband Wireless Access: Mobile WiMAx and WiFi													
3	Name(s) of academic staff :	Dr. Kuru	Dr. Kuruvikulam Chandrasekaran Arun, David Tan, Salmiah Binti Amin												
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)	i (if Nil													
7	Course Learning Outcomes (CLO (example) - explain t						e able to:								
	CLO1	Explain the technical concepts and the architecture of WLAN Technology(C2,PLO1)													
	CLO2	Choose t	Choose the relevant Mobile and Wireless Technology to solve problems in any given scenario(C3,PLO2)									2)			
	CLO3	Propose WLAN Infrastructure design for an enterprise network with the usage of site survey tools and techniques(A3,PLO6)													
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		Programme Learning Outcomes (PLO)												
	(CLO)	Knowledge and Understandin	Cognitive Skills,	Practical Skills,	Interpersonal Skill,	Communicati on skill,	Digital Skills,	Numeracy Skills,	Leadership, autonomy and	Personal Skills,	Entrepreneuri al Skills,	Ethics and professionalis		Teaching Methods	Assessment
		PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	responsibility,	PLO9	PLO10	PLO11	PLO12	Methods	
	CLO 1	✓												Lecture	Test
	CLO 2		✓											Lecture	Final Exam
	CLO 3													Problem Based	Individual Assignment
							√							Learning	Ü
	Indicate the relevancy between the CLO and PLO by t (This description must be read togo								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	2 Digital Skills,										
				3	3										
				4	4										
10	Distribution of Student Learning Time (SLT)		5												
	Distribution of Student Learning Time (SLT)														
			CLO*	Teaching and Learning Activities Guided Learning (F2F) Guided											
	Course Content Outline										Learni (NF2	_	Independent Learning	SLT	
					1	L	1	Г	ı	P	0	eg: e-learning	(NF2F)		
	Introduction to WLAN & WLAN Infrastructure Devices			1		3								3	6
	Radio Frequency (RF) Fundamentals for WLAN Technology			1		1								1	2
	WLAN Terminology and Technology			1	-	2								2	4
	WLAN Threats & Security			1	3	3								6	9
	WiMAX and LTE			2	(5								6	12
	Other current technologies			2	4	1								4	8
	The Future: Li-Fi			2		5								5	10
	IoT and Wireless Sensor Networks			2	-	4								8	12
	Problem Based Learning:WLAN Site Survey Design and Considerations			3			7	7						14	21
	Problem Based Learning:WLAN Deployment			3			7	7						14	21

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				То	tal 105					
Ļ	Continuous Assessment	Percentage (%)	F2F	NF2F	SLT					
	1 Test (Week-8)	20	1		2 3					
	2 Individual Assignment (Week-12) - Wireless Site Survey Report - 1500 words	40	0		6 6					
	3				0					
	4				0					
	5				0					
				To	tal 9					
	Final Assessment	Percentage (%)	F2F	NF2F	SLT					
	1 Final Exam	40	2		4 6					
	2				0					
	3				0					
	4				0					
	5				0					
		т								
			,							
	**Please tick (v) if this course is Latihan Industri/ C Effective Learning Time (ELT) of 50%	GRAND TOTAL SLT	120							
L	= Lecture, T = Tutorial, P= Practical, O= Others, F2	ecture, 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 dentify special requirement to deliver Softwar	n Item 8. res: Any Heat Mapper	r took (Open Source)							
tl	the course (e.g: software, nursery,	es. Ally Heat Mappe.	tools (Open Source,							
C	computer lab, simulation room, etc)									
L2 R	References :(include required and further readings	s, and should be the r								
			Essential	Reading						
				Coleman, D.and Westcott, D.(2018) CWNA Certified Wireless Network Administrator Study Guide: Exam CWNA-107 . 5th Edition. Sybex. ISBN-13: 978-1119425786.						
			,							
				Bartz,R. J.(2017) CWTS, CWS, and CWT Complete Study Guide: Exams PW0-071, CWS-2017, CWT-2017 .3rd Edition.New York:Wiley.ISBN-13: 978-1119385035.						
13 C	Other additional information :									

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