1	Name of Course :	Systems	Systems and Network Administration								Version Number:	VD1			
	Course Code :									Effective Date:	01 Sep 2019				
2	Synopsis :	network the syste	This module provides an introduction to the principles and practice of systems administration in a corporate networked environment. Students will install and configure the operating system on several virtual machines, configure the systems for various roles (gateway, mailserver, webserver, LDAPserver), configure the essential services, and make enhancements to improve performance, authentication, authorisation, and accounting.												
3	Name(s) of academic staff :	Dr. Thomas, Shounak Ghosh													
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	3												
6	Prerequisite/co-requisite: (if any)	CT049-3-1 Operating Systems & Computer Architecture and CT043-3-1 Introduction to Networking or equivalent													
7	Course Learning Outcomes (CLO)														
	CLO1	ain the basic principles of immunisation (C2,PLO1)  Explain the role and operation of each of the software components essential to a corporate networked information system (C2, PLO1)													
	CLO2	Evaluate proposed improvements to the configuration of a corporate networked information system and the associated administration policies and procedures (C4, PLO2)													
	CLO3	Integrate DNS, DHCP, email, web, LDAP, SSL to create a working system (A4, PLO6)													
	CLO4	Combine new elements into the basic system to meet the needs of diverse communities of interest (A4, PLO4)													
8 Mapping of the Course Learning Outcomes to the Programme Learning Outcomes, Teaching Methods and Assessment: Please select the learning out each PLO in the cells above it. E.g PLO1- Knowledge and Understanding, PLO2- Cognitive Skills, PLO3-Practical Skills								g outcome Doma	in(LOD) for						
	Course Learning Outcomes (CLO)				F	Programn	ne Learni	ng Outco		)					
	(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 m		Teaching Methods	Assessment
		PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	responsibility,	PLO9	PLO10	PLO11	PLO12		
	CLO 1	<b>√</b>												Lecture	Final Exam
	CLO 2		<b>√</b>											Lecture	Final Exam
	CLO 3						✓							Tutorial	Individual Work
	CLO4				<b>√</b>									Case Study	Group
					,										Assignment
	Indicate the relevancy between to	he CLO an	d PLO by	ticking "1	/" the app	propriate i	relevant	box.					<u> </u>		
9	(This description must be red Transferable Skills (if applicable)			d togethe	ngether with Standards 2.1.2 , 2.2.1 and 2.2.2 in Area 2 - pages 16 & 18)  Cognitive Skills,										
5	(Skills learned in the course of study which can be useful and utilized in other settings)		h can be	1											
			2	Digital Skills,											
			3	Interpersonal Skill,											
			4												
10	Distribution of Student Learning Time (SLT)			5											
			-,												
			Teaching and Learning Activities  Guided Learning (EZE) Guided												
	Course Content Outline			CLO*	Guided Learning (F2F)						Learning (NF2F)		Independent Learning	SLT	
					L	Т	1	Р	0	е	g:	(NF2F)			
	Essential services: operation and protocols			1	7	7						e-lea	rning	7	14
	Protecting servers and services	2		7								7	14		
	Policy-based System Administration			2		7								7	14
	Practical strategies for systems administrators  Configuring essential services *			2	7	7								7	14
				3			į	5						5	10
	Case Study: Configuring security *						3	3						9	12
	Case Study: Enhanced service configuration *			4			(	5						16	22
															0
															0
	*To be conducted in lab														0

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							0					
							0					
							0					
							0					
							0					
					Total	100						
	Continuous Assessment	Percentage (%)	F2F			SLT						
	Individual Work (Week 7) - Individual Base System Demo	10	1		3							
Ī	Group Assignment - 1500 words - Individual Component (10%) - Group Component (25%)	35			8							
Ī	3						0					
Ī	4						0					
Ī	5											
Ī	6											
Ī	7						0					
Ī			<u>-</u>			Total	12					
	Final Assessment	F2F		SLT								
	1 Final Exam	55	2		6							
	2						0					
	3						0					
	4						0					
	5											
Ī						Total	8					
	*Please tick (V) if this course is Latihan Industri/ C Effective Learning Time (ELT) of 50%	linical Placement	/ Practicum/ WBL u	sing	GRAND TOTAL SLT		120					
	= Lecture, T = Tutorial, P= Practical, O= Others, F2	F=Face to Face, N	F2F=Non Face to Fa	ce								
,	Indicate the CLO based on the CLO's numbering in											
	dentify special requirement to deliver he course (e.g. software, nursery,											
ď	computer lab, simulation room, etc)											
12 F	References :(include required and further readings, and should be the most current)  Essential Reading											
			·	Shotts, W. (2019). The Linux Command Line, A Complete Introduction. 2nd Edition. NoStarch Press. ISBN 9781593279523								
	Ross, A. (2019). <i>Ultimate Linux Newbie Guide</i> . OpenTech ICT Solution											
	https://linuxnewbieguide.org/product/the-ultimate-linux-newbie-guide- Tevault, D.A. (2018). <i>Mastering Linux Security and Hardening</i> . Packt Publ 9781788620307											
13 (	Other additional information :			None								

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