

 Prifysgol Cymru Y Drindod Dewi Sant University of Wales Trinity Saint David	Wales Institute of Science and Art	
	Applied Computing	
	Network Operating Systems and Services (ACCA5023)	
	MILESTONE	
Lecturer: Dr. Nitheesh Murugan Kaliyamurthy		
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Understanding of the concepts, principles, skills and techniques required to manage and deploy network resources in a Network Operating Systems environment		
Week	Unit(s) Covered	Unit(s) Covered
Week 1(27-01-26)	Module Introduction, Coursework Introduction, Understanding Networks, Components, Architectures, IP Addressing, Infrastructure, Servers	Research on IP Addressing, Download ISO's for your Coursework
Week 2(03-02-26)	Server Virtualization (Virtualization Modes, Hyper-V architecture, nested virtualization, Hyper-V manager)	Research on Hypervisor, Choose your Hypervisor and Setup your Virtual Network
Week 3(10-02-26)	Directory Services (Active Directory Infrastructure, DNS, OU's and Containers, Accounts and Groups)	Design and configure IP Address for your Virtual Network, Troubleshoot any challenges
Week 4(17-02-26)	Server Roles and Features: Routing, Remote Access, Web/ File Management Services	Research on Routing and Network Services (Submission ready - C1).
Week 5(24-02-26)	DNS	Promote Domain Controller, and configure Routing
Week 6(03-03-26)	Reading Week/ Mid Assessment Point - Coursework 1 Deadline	Submit your Coursework 1
Week 7(10-03-26)	Virtual Private Networks	Configure VPN between Swansea and London Networks
Week 8(17-03-26)	DHCP, Powershell Scripts	User Management, Sub-Domain Addition, DHCP
Week 9(24-03-26)	Understanding Software Defined Networking	Test and Troubleshoot
EASTER BREAK		
Week 9(21-04-26)	Lecturer Assisted Tutorials/ Recap	Configure Disk Drives, IIS Server and Remote Desktop Services/ Benchmark your work with Industry Best Practices to achieve excellent standard
Week 10(28-04-26)	Lecturer Assisted Tutorials/ Recap	
Week 11(05-05-26)	Backup/ Revision / Tutorials - Getting ready for Demonstration	
Note: The dates provided for each topic are only for reference and may vary based on your understanding. It is important to regularly check for updates during the lectures/ tutorials and make necessary adjustments to your study plans.		
Key Dates	03rd March 2026, 11th May 2026 and 12th May 2026	
Assessment	Deadline	
Component 1 50%	03rd March 2026 at 1500 via Moodle Submission	
Component 2 50%	Demonstration: 12th May 2026. Submission of Report on or before 11th May 2026 at 1500 hrs.	
Worksheet 1	Build, and deploy, a Type 2 Hypervisor platform based Virtualised network	
Worksheet 2	Configure, and manage a Type 2 Hypervisor platform based Virtualised network	
Book	Dauti, Bekim. Windows Server 2019 Administration Fundamentals: A beginner's guide to managing and administering Windows Server environments, 2nd Edition . Packt Publishing.	