



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; Lee Cobley; Munyaradzi Murira

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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	Description
Week 1 (24-01-22)	Introduction to Windows Server (Understanding Networks, Components, Architectures, IP Addressing, Infrastructure, Servers)	Further Reading List
Week 2 (31-01-22)	Server Virtualization (Virtualization Modes, Hyper-V architecture, nested virtualization, Hyper-V manager)	Further Reading List
Week 3 (07-02-22)	Directory Services (Active Directory Infrastructure, DNS, OU's and Containers, Accounts and Groups)	Further Reading List
Week 4 (14-02-22)	Server Roles and Features, Application Servers, Webservices	Further Reading List
Week 5 (21-02-22)	Server Roles and Features: Remote Access, File and Print Services	Further Reading List
Week 6 (28-02-22)	Group Policies, Group Policy Editors, Group Policy Objects	Further Reading List
Week 7 (07-03-22)	Storing Data (Storage Technologies, Local Storage, Network Storage)	Further Reading List
Week 8 (14-03-22)	Storing Data (RAID, Disk Types)	Further Reading List
Week 9 (21-03-22)	Network Operating Systems: Linux	Further Reading List
Week 10 (28-03-22)	Understanding Software Defined Networking.	Further Reading List
EASTER BREAK		

Week 11 (25-04-22)	Backup/ Revision / Tutorials	
Assessment	Outcome	Deadline
Component 1 50%	Apply a systematic understanding of network operating system environments to deploy, manage and maintain critical network services and resources	25/02/2022
Component 2 50%	Analyse a given network to produce suitable security audit/disaster recovery strategy	29/02/2022
Worksheet 1	Building a virtual LAN using a TYPE 2 HYPERVISOR Program, deploy a network directory service and creating, understanding ACTIVE DIRECTORY network objects	Component 1 50%
Worksheet 2	Management and security of network resources utilising Group Policy Management. Routing and Remote Access with security features	Component 2 50%
Book	Dauti, Bekim. Windows Server 2019 Administration Fundamentals: A beginner's guide to managing and administering Windows Server environments, 2nd Edition . Packt Publishing.	