Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

Wales Institute of Science and Art
Applied Computing
L7 - Enterprise Core Networking (ENCOR) - ACCA7029
MILESTONE - Academic Year 2022-23 (Sep 2022) - Sem 1

Lecturer: Nitheesh Murugan Kaliyamurthy, Munyaradzi Murira
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To develop in depth the knowledge and skills needed to configure, troubleshoot, and manage enterprise wired and wireless networks. To have a broader architectural understanding and deep implementation skills required by enterprise networks.

Week	Unit(s) Covered	Labs
Week 1 (03/10/2022)	**Pre-requisite Activity**	**SBA**
Week 1 (07/10/2022)	Packet Switching (M)	Lab Activities: Inter-VLAN Routing
Week 2 (10/10/2022)	Spanning Tree Protocol (N)	Lab Activities: STP
Week 2 (14/10/2022)	Scaling VLANS (M)	Lab Activities:VTP, Ether Channels
Week 3 (17/10/2022)	IP Routing Essentails (N)	Lab Activities: IP_Routing
Week 3 (21/10/2022)	EIGRP (M)	Lab Activities: EIGRP
Week 4 (24/10/2022)	IP Services (N)	Lab Activities: IP_Services
Week 4 (28/10/2022)	Enterprise Network Architecture (M)	Complete all Lab Activities
Week 5 (31/10/2022)	OSPF (N)	Lab Activities: OSPF
Week 5 (04/11/2022)	OSPF (M)	Lab Activities: OSPF
Week 6 (07/11/2022)	**Reading/Mid-Assessment Week (Complete all the Practical Lab Activities)**	
Week 7 (14/11/2022)	BGP - Introduction (N)	Lab Activities: BGP

Week 7 (18/11/2022)	BGP - Introduction (M)	Lab Activities: BGP
Week 8 (21/11/2022)	Multiprotocol BGP and Route Summarization (N)	Lab Activities: BGP
Week 8 (25/11/2022)	Multiprotocol BGP and Route Summarization (M)	Lab Activities: BGP
Week 9 (28/11/2022)	Advanced BGP Concepts (N)	Lab Activities: BGP
Week 9 (02/12/2022)	Access Control Lists (M)	Lab Activities: ACL
Week 10 (05/12/2022)	Access Control Lists (N)	Lab Activities: ACL
Week 10 (09/12/2022)	Infrastructure Security (M)	Lab Activities: Security
Week 11 (12/12/2022)	Revision/ Summary (N/M)	Complete all Lab Activities

Assessment		
	Outcome	
Component 1 50%	Demonstrate a comprehensive and detailed theoretical and practical knowledge of IP Switching and Routing within enterprise network environments. Analyse and apply advanced technologies to support a secure and scalable enterprise network architecture.	**Written Exam 09/01/2023 (10.00 am - 12.00 noon)**
Component 2 50%		**Practical Exam 13/01/2023 (10.00 am - 01.00 pm)**

Readings		
Book	B Edgeworth, R G Rios, J Gooley and D Hucaby, (2020) CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide by Cisco Press	
Book	CCNP Routing and Switching ROUTE 300-101 Official Cert Guide (2014), Kevin Wallace by Cisco Press	
Book	CCNP Routing and Switching SWITCH 300-115 Official Cert Guide (2014), David Hucaby by Cisco Press	
Resources	Cisco Academy Website, www.netacad.com (password access only)	