



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

Wales Institute of Science and Art

Applied Computing

Cyber Security Essentials (ACCA4029)

MILESTONE - Academic Year 2020-21 (Jan 2021)

Lecturer: Nitheesh Murugan Kaliyamurthy

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To protect their personal privacy and business information

Week	Unit(s) Covered	Additional
Week 1 (26-01-21)	Cyber Security, Understand Cyber Security	(1.5.3.5 Packet Tracer) - Creating and communicating Cyber World
Week 2 (02-02-21)	Cyber Security Cube, CIA Triad.	(1.5.3.5 Packet Tracer) - Creating and communicating Cyber World
Week 3 (09-02-21)	Cyber Security Countermeasures and Security Management Framework.	(3.3.2.7 Packet Tracer) - WEP WPA2 PSK WPA2 RADIUS
Week 4 (16-02-21)	Cyber Threats, Vulnerabilities and Attacks.	-
Week 5 (23-02-21)	Cyber Threats, Vulnerabilities and Attacks.	(2.5.2.6 Packet Tracer) - Exploring File and Data Encryption
Week 6 (02-03-21)	Cryptography, Access Control, Obscuring Data.	(2.5.2.7 Packet Tracer) - Using File and Data Integrity Checks
Week 7 (09-03-21)	Data Integrity, Digital Signatures.	(4.3.3.3 Packet Tracer) - Configuring VPN Transport and Tunnel Mode
Week 8 (16-03-21)	Availability, Incident Response and Disaster Recovery.	(6.2.3.8 Packet Tracer) - Router and Switch Redundancy and Resilience
Week 9 (23-03-21)	Defending Systems, Server Hardening, Network Hardening, Physical Security.	-
EASTER BREAK		
Week 10 (20-04-21)	Cyber Security Domains, Ethics	-

Week 11 (27-04-21)	Review on Cybersecurity - Self Analysis/ Case study	Online Exam (Scheduled)
Assessment		
	Outcome	
Component 1 100%	Demonstrate essential skills and an understanding of trends, threats and countermeasures for safer online and communication at workplace	Online Exam (1 Hour)
Readings		
Book	William Stallings (2017) Network Security Essentials: Applications and Standards, 6th Edition, Pearson	
Book	C J Brooks, C Grow, P Craig and D Short (2018) Cybersecurity Essentials, John Wiley & Sons, Inc	
Resources	Introduction to Cybersecurity Essentials	
Resources	www.netacad.com (User Login Required)	