Course Code	Course Title				Р	С	
BCSE354E Information Security Management				0	2	2	
Pre-requisite	NIL Sylla			abus version			
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Course Objectives

- 1. To introduce system security related incidents and insight on potential defenses, counter measures against common threat/vulnerabilities
- 2. To provide the knowledge of installation, configuration and troubleshooting of information security devices
- 3. To make students familiarize on the tools and common processes in information security audits and analysis of compromised systems

Course Outcomes

- 1. Understand and manage information security Devices
- 2. Configure and install information security devices
- 3. Organize a healthy, safe and secure working environment
- 4. Interpret the data/information in standard formats
- 5. Develop knowledge, skills and competence in information security

Module:1 Information Security Devices

2 hours

Identify and Access Management (IdAM), Networks (Wired And Wireless) Devices, Endpoints/Edge Devices, Storage Devices, Servers, Infrastructure Devices (e.g. Routers, Firewall Services), Computer Assets, Servers And Storage Networks, Content management.

Module:2 | Security Device Management

2 hours

Different types of information security devices and their functions, Technical and configuration specifications, architecture concepts and design patterns and how these contribute to the security of design and devices.

Module:3 Device Configuration

2 hours

Common issues in installing or configuring information security devices, Methods to resolve these issues, Methods of testing installed/configured information security devices.

Module:4 | Team Work and Communication

2 hours

Communicate with colleagues clearly, concisely and accurately, Work with colleagues to integrate their work effectively, Pass on essential information to colleagues in line with organizational requirements.

Module:5 | Managing Health and Safety

2 hours

Comply with organization's current health, safety and security policies and procedures, Report any identified breaches in health, safety, and Security policies and procedures, Identify, report and correct any hazards, Organization's emergency procedures, Identify and recommend opportunities for improving health, safety, and security.

Module:6 Data and Information Management

2 hours

Fetching the data/information from reliable sources, checking that the data/information is accurate, complete and up-to-date, Rule-based analysis of the data/information, Insert the data/information into the agreed formats, Reporting unresolved anomalies in

the	data/inf	ormation.							
Мо	dule:7	Learning and Self Development	2 hours						
		curately the knowledge and skills needed, Current level of k							
	-	etence and any learning and development needs, Plan	-						
	-	nt activities to address learning needs.	9 11						
	dule:8	Contemporary Issues	1 hour						
		. ,	1 110011						
		Total Lecture hours:	15 hours						
Tex	kt Book	(s)							
1.	Rhode: Edition	s-Ousley, Mark. Information Security: The Complete Refe ,. Information Security Management: Concepts and Pract w-Hill, 2013.							
2.		stopher J. Alberts, Audrey J. Dorofee, Managing Information Security Risks, ison-Wesley Professional, 2004.							
Ref	ference								
1.	Andrew Vladimirov Michajlowski, Konstantin, Andrew A. Vladimirov, Konstantin V. Gavrilenko, Assessing Information Security: Strategies, Tactics, Logic and Framework, IT Governance Ltd, O'Reilly 2010.								
2.		ristopher J. Alberts, Audrey J. Dorofee, Managing Information Security Risks, dison-Wesley Professional, 2004.							
3.		uck Easttom, System Forensics Investigation and Response, Second Edition, les & Bartlett Learning, 2014.							
4.		d Kennedy, Jim O'Gorman, Devon Kearns, and Mati Aharoni, Metasploit The etration Tester's Guide, No Starch Press, 2014.							
5.	Ref Lin	ks:							
	https://	www.iso.org/isoiec-27001-information-security.html							
	https://	www.sans.org/reading-room/whitepapers/threats/paper/341	<u>80</u>						
	https://	csrc.nist.gov/publications/detail/sp/800-40/version-20/archiv	<u>e/2005-11-16</u>						
	https://www.sscnasscom.com/qualification-pack/SSC/Q0901/								
Мо	de of Ev	aluation: CAT, Quiz and FAT							
		Experiments							
1.	Install	and configure information security devices							
2.		netration Testing							
3.		QL SQL Injection							
4.		ion Detection/Prevention							
5.		Redirection and Tunneling							
6.	Working with Commercial Tools like HP Web Inspect and IBM AppScan etc.,								
7.	Explore	e Open Source tools like sqlmap, Nessus, Nmap etc	20 harra						
N / ~	do of a-	Total Laboratory Hours	s 30 hours						
		sessment: CAT / FAT Ided by Board of Studies DD-MM-YYYY							
Αh	JIUVEU D	y Academic Council Date							