

Program	Master of Computer Applications (Autonomous) (M.C.A (Autonomous))	Semester - 3
Type of Course	-	
Prerequisite		
Course Objective	-	

Teaching Scheme (Contact Hours)					Exa	mination Sch	eme	
			Cue dit	Theory	/ Marks	Practica	ıl Marks	Total
			Credit					Marks
3	-	-	3	50	50	-	-	100

SEE - Semester End Examination, CIA - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.)

Cou	rse Content	<b>T</b> - Teaching Hours   <b>W</b> -	Wei	ghtag
Sr.	Topics		Т	w
1	Introduction &	Introduction to Cybercrime	9	20
	the course on S	mplication and Scope of Cyber Security concepts and its Importance in Economic growth of Nation, Societal Problems / Sustainable Solutions / National Economy, Career Perspective, Overview of the tions and Research Trends.	-	
	Security, who a	<b>Cybercrime:</b> Introduction, Cybercrime: Definition and Origins of the word, Cybercrime and Informate Cybercriminals? Classifications of Cybercrimes. Categories of Cybercrime. How Criminals Plan Attring, Cyber stalking, Cybercafé and Cybercrimes, Botnets, Attack Vector.		
2	Tools and Met	hods used in Cybercrime	8	20
		hods used in Cybercrime: Introduction, Proxy Server and Anonymizers, Phishing, Password Cracking yware, Virus and Worms, DOS and DDOS attack.	g, Key	,
3	Cyber Security	Vulnerabilities and Cyber Security Safeguards	8	20
3	Cyber Security administration	Vulnerabilities and Cyber Security Safeguards:  Vulnerabilities and Cyber Security Safeguards: Cyber Security Vulnerabilities Overview software, S	yster	n
4	<b>Cyber Security</b> administration Biometrics. Sec	Vulnerabilities and Cyber Security Safeguards: Cyber Security Vulnerabilities Overview software, S, poor cyber security awareness. Cyber Security Safeguards-Overview, Access control, Audit, Auther	yster	n ion,
	Cyber Security administration Biometrics. Sec Intrusion Dete Intrusion Dete Malware Infect	<b>Vulnerabilities and Cyber Security Safeguards:</b> Cyber Security Vulnerabilities Overview software, S, poor cyber security awareness. Cyber Security Safeguards-Overview, Access control, Audit, Auther curity policy and threat management.	yster aticat 8 ers,	n ion, <b>20</b>
	Cyber Security administration Biometrics. Sec Intrusion Dete Intrusion Dete Malware Infect	Vulnerabilities and Cyber Security Safeguards: Cyber Security Vulnerabilities Overview software,	yster aticat 8 ers,	n ion,
4	Cyber Security administration Biometrics. Sec Intrusion Dete Intrusion Dete Malware Infect Intrusion Prevent Network Defer	Vulnerabilities and Cyber Security Safeguards: Cyber Security Vulnerabilities Overview software, Sonor cyber security awareness. Cyber Security Safeguards-Overview, Access control, Audit, Author curity policy and threat management.  ction and Prevention  ction and Prevention: Intrusion, Physical Theft, Abuse of Privileges, Unauthorized Access by Outside tion, Intrusion detection and prevention techniques Network-based Intrusion Detection Systems, Heartion Systems.  Insertiols  Insertiols: Firewalls and Packet Filters, Network Address Translation (NAT) and Port Forwarding, VPR Ince: Need for Computer Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Computer Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics Cyber forensics and Digital Evidence, Digital Forensics Life Cycle, Forensics Cyber forensics and Digital Evidence, Digital Forensics Life Cycle, Forensics Cyber forensics and Digital Evidence, Digital Forensics Life Cycle, Forensics Cyber forensics Life Cycle, Forensics Cyber forens	ysternticat  8 ers, ost-ba	20 20 20 iital
4	Cyber Security administration Biometrics. Sec Intrusion Dete Intrusion Dete Malware Infect Intrusion Preve Network Defer Forensics Scier networking site	Vulnerabilities and Cyber Security Safeguards: Cyber Security Vulnerabilities Overview software, Sonor cyber security awareness. Cyber Security Safeguards-Overview, Access control, Audit, Author curity policy and threat management.  ction and Prevention  ction and Prevention: Intrusion, Physical Theft, Abuse of Privileges, Unauthorized Access by Outside tion, Intrusion detection and prevention techniques Network-based Intrusion Detection Systems, Heartion Systems.  Insertiols  Insertiols: Firewalls and Packet Filters, Network Address Translation (NAT) and Port Forwarding, VPR Ince: Need for Computer Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Computer Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics of the Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics Cyber forensics and Digital Evidence, Digital Forensics Life cycle, Forensics Cyber forensics and Digital Evidence, Digital Forensics Life Cycle, Forensics Cyber forensics and Digital Evidence, Digital Forensics Life Cycle, Forensics Cyber forensics and Digital Evidence, Digital Forensics Life Cycle, Forensics Cyber forensics Life Cycle, Forensics Cyber forens	ysternticat  8 ers, ost-ba	20 ased 20 ital

Printed on: 16-02-2024 10:45 PM



## Course Outcomes

At the	At the end of this course, students will be able to:		
CO1	Explore the Cyber Security principles.		
CO2	Apply the cybe	er security concepts to secure from cyber-attacks.	
CO3	Formulate the	possibilities of cyber-attacks in a given use case, as a penetration tester.	
CO4	Analyze cyber	security tools to protect individual data.	
CO5	Apply Digital F	Forensic tools to address cyber security issues.	

Printed on: 16-02-2024 10:45 PM Page 2 of 2