Syllabus for Master of Business Administration, 3rd Semester Subject Name: Cyber Security and Information Technology Governance Subject Code: 1539604 With effective from academic year 2020-21

1. Learning Outcomes:

Learning Outcome Component	Learning Outcome (Student will be able to)				
Business Environment and Domain Knowledge (BEDK)	 <i>Identify</i> and describe the major types of cybercrimes and related laws. <i>Distinguish</i> between various types of cybercrimes and methods of operation of offenders, the types of victims or targets and legal domains of cyber security. 				
Critical thinking, Business Analysis, Problem Solving and Innovative Solutions (CBPI)	 Formulate a framework to enable an organization to classify its information assets. Analyze, design, install, configure, document, and troubleshoot network & system hardware and operating systems. 				
Global Exposure and Cross- Cultural Understanding (GECCU)	• Appraise the global perspective of cybercrime and cultural difference in attending such issues.				
Social Responsiveness and Ethics (SRE)	 Assess the impact of ethical issues in cybersecurity. Develop a balanced approach between security and privacy needs 				
Effective Communication (EC)	• <i>Communicate</i> the importance of IT Governance in today's scenario and handling the cyber issues				
Leadership and Teamwork (LT)	• <i>Create</i> and maintain an incident response plan to ensure an effective and timely response to information security incidents.				

LO – PO Mapping: Correlation Levels:

1 = Slight (Low); 2 = Moderate (Medium); 3 = Substantial (High), "-"= no correlation

Sub. Code: 4549251	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
LO1: <i>Identify</i> and describe the major types of cybercrimes and related laws.	3	3	1	2	2	-	-	-	3
LO2: <i>Distinguish</i> between various types of cybercrimes and methods of operation of offenders, the types of victims or targets and legal domains of cyber security.	3	2	3	1	-	1	1	-	3
LO3: Formulate a framework to enable an organization to classify its information assets.	1	2	3	2	-	1	-	-	ı
LO4: Analyze, design, install, configure, document, and troubleshoot network & system hardware and operating systems.	1	2	3	2	-	2	-	1	3
LO5: Appraise the global	1	2	1	-	3	1	-	-	3



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perspective of cybercrime and cultural difference in attending such issues.									
LO6: Assess the impact of ethical issues in cybersecurity.	-	1	3	1	1	2	3	1	-
LO7: <i>Develop</i> a balanced approach between security and privacy needs	-	-	-	2	1	3	3	-	-
LO8: <i>Communicate</i> the importance of IT Governance in today's scenario and handling the cyber issues	ı	1	ı	3	2	2	1	1	3
LO9: Create and maintain an incident response plan to ensure an effective and timely response to information security incidents.	-	1	-	2	1	3	2	1	3

2. Course Duration: The course duration is of 40 sessions of 60 minutes each.

3. Course Contents:

3. Course Contents:								
Module	Contents	No. of	Marks					
No.		Sessions	(out of 70)					
	Introduction to Cybercrime:							
	 Cyber Crime 							
	 Definition and Origin of the Word 							
	 Cyber Crime and Information Security 							
	 Who are Cyber Criminals 							
	 Classification of Cybercrimes 							
	o E-mail Spoofing, Spamming, Cyber							
	Defamation							
	 Internet Time Theft 							
	o Salami Attack, Salami technique Data							
	Diddling, Forgery, Web Jacking							
I	 Newsgroup Spam, Industrial Spying, 	10	21					
	Hacking, Online Frauds, Pornographic							
	Offenders, Software Piracy, Computer							
	Sabotage Email Bombing, Computer Network							
	Intrusions, Password Sniffing, Credit Card							
	Frauds, Identity Theft							
	Legal Perspectives of Cyber Crime:							
	 Indian Perspectives 							
	 Need of Cyber Laws 							
	 The Cyber Crime And Indian ITAct 2000/2001 							
	 Hacking and Indian Laws 							
	Global Perspective on Cyber Crime							



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	Cyber Crime Era: Survival Mantra for Netizens; Cybergrime and purishment.		
II	Cyber Offenses: How Criminals plan them, Categories of Cyber Crimes, How Criminal Plans the Attack: Active Attacks, Passive Attacks, Social Engineering, Classification of Social Engineering, Cyber Stalking: types of Stalkers, Cyber Cafe and Cyber Crimes, Botnets, Attack Vectors, Cyber Crime and Cloud Computing Cybercrime: Mobile and Wireless Devices, Proliferation of Mobile and Wireless devices, Trends in Mobility, Credit card Frauds in Mobile and wireless devices, Authentication Service Security, Attacks on Mobile/Cellphones, Mobile Devices: Security Implications for Organizations, Organization Security polices and Measures in Mobile Computing Era	8	14
Ш	Phishing and Identity Theft: Phishing: Methods of Phishing, Phishing Techniques, Types of Phishing Scams, Phishing countermeasures, Identity theft, Types and Techniques of identity thefts and its counter measures Cyber Security- Organizational Implications: Web Threats for Organization, Security and Privacy Implications, Social Media Marketing: Security risk for organizations, Incident handling: An Essential Component of Cyber Security	8	14
IV	IT Governance: Importance, benefits, what does it cover, Performance Measurement: Why is performance measurement important, what does performance measurement cover, who are the stakeholders and what are their requirements, what should we measure, What's best practice Implementation Roadmap: Goals and success criteria, how to get started, who needs to be involved and what are their roles and responsibilities Communication Strategy & Culture: Who do we need to influence, What are the key messages, Communication best practices, Developing an influencing strategy	10	21
V	Practical: Cybercrime: Examples and Mini cases		(30 marks CEC)

4. Pedagogy:

The course will use the following pedagogical tools:

- Lectures
- Case Discussions and Role Playing
- Audio-visual Material (Using CDs/Clippings/ online videos)
- Assignments and Presentations

5. Evaluation:

The evaluation of participants will be on continuous basis comprising of the following Elements:



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	Internal Evaluation	(Internal Assessment- 50 Marks)			
A	 Continuous Evaluation Component 	30 marks			
	 Class Presence & Participation 	10 marks			
	• Quiz	10 marks			
В	Mid-Semester examination	(Internal Assessment-30 Marks)			
C	End –Semester Examination	(External Assessment-70 Marks)			

6. Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of
				Publication / Edition
1.	Nina Godbole & Sunit Belapur	Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives	Wiley	2011
2.	National Computing Centre Limited, National Computing Centre Limited Staff	IT Governance: Developing a Successful Governance Strategy: A Best Practice Guide for Decision Makers in IT	John Wiley & Sons, Incorporate d, 2005	Latest Edition
3.	Prof. Dr. Marco Gercke	Understanding cybercrime: Phenomena and legal challenges Responses	ITU 2012	Latest Edition
4	Nina Godbole	Information Systems Security: Security Management, Metrics, Frameworks and Best Practices	Wiley	2017 / 2 nd

Note: Wherever the standard books are not available for the topic appropriate print and online resources, journals and books published by different authors may be prescribed.

7. Online Resource:

https://www.isaca.org/Certification/CGEIT-Certified-in-the-Governance-of-Enterprise-IT/Prepare-for-the-Exam/Study-Materials/Documents/Developing-a-Successful-Governance-Strategy.pdf

8. List of Journals/Periodicals/Magazines/Newspapers, etc.

- Journal of Cyber Security Technology, Taylor & Francis
- International Journal of Cyber-Security and Digital Forensics (IJCSDF)
- IT Governance Journal