PROGRAM	Master of Business Administration
SEMESTER	1
COURSE TITLE	Cyber Security
COURSE CODE	04MB1110
COURSE CREDITS	2
COURSE DURATION	28 Hrs (28 sessions of 60 minutes each)

COURSE OUTCOMES:

❖ Understand the major concepts of Cyber Security.
❖ Evaluate impact of attacks.
❖ Implement different tools-based solutions for cyber-attacks.
❖ Analyze cyber law with aspect to cybercrime and security

COURSE CONTENTS:

Unit No	Unit / Sub Unit	Sessions
I	**Introduction to Cybercrime and Security** Introduction, Cyber Security, Cybercrime, Classifications of Cyber Crimes: E-Mail Spoofing, Spamming, Cyber defamation, Internet Time Theft, Newsgroup Spam/Crimes from Usenet Newsgroup, Industrial Spying/Industrial Espionage, Hacking, Online Frauds, Pornographic Offenses, Software Piracy, Password Sniffing, Credit Card Frauds. Cyber offenses: How Criminals Plan that attack, Categories of Cybercrime, How Criminals Plan the Attacks: Passive Attack, Active Attacks, Scanning/Scrutinizing gathered Information, Attack (Gaining and Maintaining the System Access), Social Engineering, Cyberstalking.	08
II	**Common attack and tools for Cyber Security** Common attacks: Introduction, Phishing: Methods of Phishing, Phishing Techniques, Spear Phishing, Types of Phishing Scams, Phishing Toolkits and Spy Phishing, Phishing Countermeasures, Identity Theft (ID Theft): Personally, Identifiable Information (PII), Types of Identity Theft, Techniques of ID Theft, Identity Theft-Countermeasures, How to Protect your Online Identity, Proxy Servers and Anonymizers, Tools: Phishing implementation, Password Cracking, Keyloggers and Spywares, Steganography, DoS and DDoS Attacks, SQL Injection.	12
III	**Cybercrimes and Cybersecurity: The Legal Perspectives** Introduction, Why Do We Need Cyber Laws: The Indian Context, The Indian IT Act, Challenges to Indian Law and Cyber Crime Scenario in India, Consequences of Not Addressing the Weakness in Information Technology Act, Amendments to the Indian IT Act, Cybercrime and Punishment, Cyberlaw, Technology and Students: Indian Scenario.	08

EVALUATION:

The students will be evaluated on a continuous basis and broadly follow the scheme given below:

	Component	Weightage
A	Continuous Evaluation Component (Assignments / Quizzes /	0% (C.E.C.)

	Class Participation etc.)		
B	Internal Assessment		50% (I.A.)
C	End-Semester Examination (Practical / Viva)		50% (External assessment)

SUGGESTED READINGS:

Text Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition & Year
T-01	NINA GODBOLE, SUNIT BELAPURE, KAMLESH BAJAJ	Cyber Security	**WILEY**	1st Edition, 2012

Reference Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition & Year
R-01	James Graham, Richar Howard,Ryan Olson	Cyber Security Essentials	**CRC Press, Taylor and Francis Group**	1st Edition, 2010
R-02	Alfred Basta, Nadine Basta, Mary Brown, Ravinder Kumar	Cyber Security and Cyber Laws Paperback	CENGAGE INDIA	1st Edition, 2018