

PROGRAM	Master of Business Administration	
SEMESTER	3	
COURSE TITLE	Information Security, Ethics and Issues	
COURSE CODE	04MB0342	
COURSE CREDITS	03	
COURSE DURATION	42 Hrs (42 sessions of 60 minutes each)	

COURSE OUTCOMES:

- * Understand, appreciate, employ, design and implement appropriate security technologies and policies to protect computers and digital information.
- * Identify & Evaluate Information Security threats and Cryptography methods
- * Identify common Response and Human factors on Information Security
- * Demonstrate the use of standards and cyber laws to enhance information security in the development process and infrastructure protection.
- * Identify the common concepts involved in Information security and correlate the same with Industry practices.

COURSE CONTENTS:

Unit	Unit / Sub Unit	
No		
I.	Foundations of. Cyber Security Concepts: Essential Terminologies: CIA, Risks, Breaches,	
	Threats, Attacks, Exploits. Information Gathering (Social Engineering, Foot Printing &	
	Scanning).Open Source/ Free/ Trial Tools: nmap, zenmap, Port Scanners, Network	
	scanners.	
П	Cryptography and Cryptanalysis: Introduction to Cryptography, Symmetric key	
	Cryptography, Asymmetric key Cryptography, Message Authentication, Digital	
	Signatures, User Management, VPN Security, Security at Transport Layer- SSL and TLS,	
	Security at Network Layer-IPSec.	
Ш	Intrusion Detection and Response – Anomaly (network and host) – Specification based	10
	(network and host) – Human Factors: – Captcha's – Social engineering, e.g., phishing –	
	Economics of Security – Incentives and motivations for attack.	
IV	Ethical Issues pertaining to IS: · Ethical responsibilities of business professionals ·	12
	Computer crime – hacking & cracking, cyber theft, unauthorized use at work, software	
	piracy, theft of intellectual property, viruses & worms, adware and spyware.	
V	Information Security: · First line of defence – People / employees' · Second line of defence	06
	 Technology for authorization, prevention, detection and response. 	
	Contemporary/ emerging technologies: · Cloud and mobile computing · E-commerce, m-	
	commerce · Internet of Things	

EVALUATION:

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

		Weight age	
А	Assignment & Presentation	20%	
В	Internal Assessment	30% (I.A.)	
С	End-Semester Examination	50%	(External
		Assessment)	

SUGGESTED READINGS: Text Books:

Sr No	-	Author/s	Name of the Book	Publisher	Edition & Year
T1	1	Michael T. Goodrich and	Introduction to Computer	Addison	2011
		Roberto Tamassia	Security	Wesley	
T2	2	William Stallings	Cryptography and Network	Pearson	4 th
			Security	Education	Edition2010

Reference Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition and Year
R-	Alfred J. Menezes, Paul C. van	Handbook of Applied	CRC Press	2001
01	Oorschot and Scott A. Vanstone	Cryptography		
R-	Nina Godbole	"Information System	Wiley	2016
02		Security"		
R-	Bothra Harsh	"Hacking"	Khanna Publishing	2010
03			House, Delhi	