

Program Name	Common to all except BCA	Semester	III / IV
Course Title	Cyber Security (Theory)		
Course Code:	SEC-2	No. of Credits	02
Contact hours	30 Hrs	Duration of SEA/Exam	01 Hrs
Formative Assessment Marks	20	Summative Assessment Marks	30

Course Outcomes(COs):After the successful completion of the course, the student will be able to:

CO1	After completion of this course, students would be able to understand the concept of Cyber security and issues and challenges associated with it.
CO2	Students, at the end of this course, should be able to understand the cyber crimes, their nature, legal remedies and as to how report the crimes through available platforms and procedures.
CO3	On completion of this course, students should be able to appreciate various privacy and security concerns on online Social media and understand the reporting procedure of inappropriate content, underlying legal aspects and best practices for the use of Social media platforms.

Contents		30Hrs
Module-I. Introduction to Cyber security: Defining Cyberspace, Architecture of cyberspace, Communication and web technology, Internet, World wide web, Internet infrastructure for data transfer and governance, Internet society, Regulation of cyberspace, Concept of cyber security, Issues and challenges of cyber security. IT Act 2000 and its amendments, , Cyber crime and offences, Organisations dealing with Cyber crime and Cyber security in India, well known Case studies.		10
Module-II .Cyber crime and Cyber law:Classification of cyber crimes, Common cyber crimes- cyber crime targeting computers and mobiles, cyber crime against women and children, financial frauds, social engineering attacks, malware and ransomware attacks, zero day and zero click attacks, Cybercriminals modus-operandi, Reporting of cyber crimes, Remedial and mitigation measures, Legal perspective of cyber crime.		10
Module III. Social Media Overview and Security: Introduction to Social networks. Types of Social media, Social media platforms, Social media monitoring, Hashtag, Viral content, Social media marketing, Social media privacy, Challenges, opportunities and pitfalls in online social network, Security issues related to social media, Flagging and reporting of inappropriate content, Laws regarding posting of inappropriate content, Best practices for the use of Social media, Case studies.		10

Pedagogy: Lecture, PPT, Video, Animation, Tutorial

Formative Assessment for Theory	
Assessment Occasion/type	Marks
Internal Test1	30%
Assignment/Surprise Test	20%
Total	20 Marks
Summative Assessment for Theory	
Unit 1: 5 Questions x 2 Marks	10 Marks
Unit II : 5 Questions x 2 Marks	10 Marks
Unit III : 5 Questions x 2 Marks	10 Marks
*Any 5 questions out of given 07 questions	Total 30 Marks

Text/References	
1	Cyber Security: Understanding Cyber Crimes, Computer Forensics and legal perspective” by Suniti Belapure and Nina Godbole
2	Cyber Crime & Law by V. Appakutty, Coral Publications & Distributors, Chennai, Edition 2022
3	Introduction to Cyber Security concepts, Principles, Technologies and Practices by Ajay Singh
4	Cyber Crime Impact in the New Millennium, by R. C Mishra, Auther Press. Edition 2010
5	Introduction to Information Security and Cyber Law, Dr. Suryaprakash Tripathi
6	Computer Forensics and Cyber Crime Introduction by Marjie T
7	The Information Technology Act 2009
8	Introduction to Cyber Security by Anand Shinde
9	Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives by SumitBelapure and Nina Godbole, Wiley India Pvt. Ltd. (First Edition, 2011)
10	Security in the Digital Age: Social Media Security Threats and Vulnerabilities by Henry A. Oliver,Create Space Independent Publishing Platform. (Pearson , 13 th November, 2001)
11	Cyber Laws: Intellectual Property & E-Commerce Security by Kumar K, Dominant Publishers.
12	Fundamentals of Network Security by E. Maiwald, McGraw Hill.
13	Network Security Bible, Eric Cole, Ronald Krutz, James W. Conley, 2nd Edition, Wiley India Pvt. Ltd.

QUESTION Paper pattern
Skill Enhancement Course
CYBER SECURITY
III / IV SEMESTER
COMMON TO ALL (EXCEPT BCA)

Duration : 2 Hour

Max. Marks : 30

Module – 1

Answer any five questions from Seven (2 x 5 = 10)

Module – 2

Answer any five questions from Seven (2 x 5 = 10)

Module – 3

Answer any five questions from Seven (2 x 5 = 10)

**CURRICULUM STRUCTURE FOR III OR IV SEMESTER COMMON TO ALL
(EXCEPT BCA)**

Semester	Course No.	Theory/ Practical	Credits	Paper Title	S. A	L. A
III / IV	SEC - 2	Theory / Practical	2	Cyber Security	30	20