Program Name				Semester	V
Course Title	Cyber Secu	rity(Theory)			
Course Code:	SEC-5	×		No. of Credits	
Contact hours	45Hrs(3hrs/	/week)		Duration of SEA/Exam	02 hrs
Formative Asse Marks	essment	50	Sun	nmative Assessment Marks	50

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						
CO3	On completion of this course, students should be able to appreciate various private security concerns on online Social media and understand the reporting procedu appropriate content, underlying legal aspects and best practices for the use of media platforms.	f Social				
CO4	CO4 After the completion of this module, students would be able to understand the basic concepts related to E-Commerce and digital payments. They will become familiar with various digital payment modes and related cyber security aspects, RBI guidelines and preventive measures against digital payment frauds.					
CO5	Students, after completion of this module will be able to understand the basic aspects related to Computer and Mobiles. They will be able to use basic to technologies to protect their devices.	ools and				
	Contents	45Hrs				
Computechnol transfe	I. Introduction to Cyber security: Defining Cyberspace and Overview of ster and Web-technology, Architecture of cyberspace, Communication and web logy, Internet, World wide web, Advent of internet, Internet infrastructure for data r and governance, Internet society, Regulation of cyberspace, Concept of cyber by Issues and challenges of cyber security.	9				
Computechnology technology transfe securit UNIT-crimes childred zero de crimes 2000 a	tter and Web-technology, Architecture of cyberspace, Communication and web	9				

July 2023

BOS Chairman
Dept of Computer Science
Davangere University
Shivagangoun, Davangere

UNIT-IV: Definition of E- Commerce, Main components of E-Commerce, Elements of E-Commerce security, E-Commerce threats, E-Commerce security best practices,	l
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
payments, Components of digital payment and stake holders, Modes of digital payments- Banking Cards, Unified Payment Interface (UPI), e-Wallets, Unstructured Supplementary	
1 c · Deta (LICCD) Andhar enabled navments Digital Dayments related common	1
1 c 1 and marianting mangures RRI guidelines on digital payments and customer	
protection in unauthorized banking transactions. Relevant provisions of Payment	
Settlement Act,2007.	1.1
UNIT-V:End Point device and Mobile phone security, Password policy, Security patch	11
management, Data backup, Downloading and management of third-party software,	
The section of the realist Cyber Security need brackings Significance of nost interval and	l .
Ant-virus, Management of host firewall and Anti-virus, Wi-ri security, Configuration of	
basic security policy and permissions.	

## Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes

C Out comes(COs) /Program		Program Outcomes (POs)													
Course Out comes(COs) /Program Outcomes (POs)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Quickly understand the given problem and come up with the correct answer															
Identify, construct and compute numerical situations by work with numbers															
Conceive and develop a methodology for analyzing data and solving a problem.															
Define, modify and apply critical thinking to real time situations.															

## Pedagogy: Problem Solving

Formative Assessment for T	Theory
Assessment Occasion/type	Marks
Internal Test	30
Assignment/Surprise Test	20
Assignment/Surprise Test  Total	50 Marks

Cyber Crime Impact in the New Millennium, by R. C Mishra, Auther Press. Edit  Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Per Belapure and Nina Godbole, Wiley India Pvt. Ltd. (First Edition, 2011)  Security in the Digital Age: Social Media Security Threats and Vulnerabilities b Create Space Independent Publishing Platform. (Pearson, 13th November, 2001)	ion 2010
Belapure and Nina Godbole, Wiley India Pvt. Ltd. (First Edition, 2011)  3 Security in the Digital Age: Social Media Security Threats and Vulnerabilities b  Greats Space Independent Publishing Platform. (Pearson, 13 <sup>th</sup> November, 2001)	
3 Security in the Digital Age: Social Media Security Threats and Vulnerabilities b	spectives by Sumit
Create Space Independent Publishing Platform. (Pearson, 13" November, 2001)	Henry A. Oliver.
C ' 1 V Domin	
4 Cyber Laws: Intellectual Property & E-Commerce Security by Kumar K, Domin	ant Publishers.
5 Fundamentals of Network Security by E. Maiwald, McGraw Hill.	
6 Network Security Bible, Eric Cole, Ronald Krutz, James W. Conley, 2nd Editio	1
Wiley India Pvt. Ltd.	1,

Job 12/2023

Registrar
Davangere University
Shivagangotri, Davangere

BOS Chairman
Dept of Computer Science
Davangere University
Shivagangoun, Davangere

## Fifth Semester BCA/BSc Degree Examination, Jan/Feb-2024 SEC - Cyber Security

Time: 2 Hours	Max. Marks: 50
Section - A Note: Answer any TEN sub questions out of 12, each question car	ries TWO marks. (10×2= 20)
1.	
a.	
b.	
C.	
d.	
e.	
f.	
g. h.	
i.	
j.	
k.	
1,	
Section - B	
Answer any FOUR questions out of SIX of the following, ea	ch question carries FIVE marks $(5 \times 4 = 20)$
2.	$(3^4-20)$
3.	
4.	
5.	
6.	
7.	
Section - C	
Answer any ONE question of the following, it carries TEN marks	(1×10-10)
and the following, it carries TEN marks	$(1 \times 10 = 10)$
8.	
9.	
•	

BOS Chairman
Dept of Computer Science
Davangere University
Shivagangorn, Davangere

Ju26/12/2023