1.3.2 & 1.3.3

Programme Code:	B.Sc. - IT			Programme Title:	Information Technology	
Course Code:	22VIT602			Title	Batch:	2022-2025
				Value Added Course - 2	Semester:	VI
Lecture Hrs./Week	30 Hrs.	Tutorial Hrs./Sem.	-	Crux of Cyber Security and Crime	Credits:	-

Course Objective

On successful completion of this subject the students can understand various concepts of Cybercrime, security tips for email and smartphones etc.

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	To keep in mind the fundamentals of cyber security & crimes	K1
CO2	To understand the types of security mechanisms	K2
CO3	To apply and identify security measures, and various types of malwares and viruses	K3
CO4	To analyze security, privacy, and efficiency of a email	K4
CO5	To Assess the concepts of Antivirus and safety mechanisms.	K5

Mapping

PO /PSO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	H	H	M	H	M	H	H	H	H	H
CO2	M	H	H	M	M	M	H	M	H	M	M	H
CO3	M	M	M	H	H	M	H	H	M	H	H	H
CO4	H	H	H	H	H	M	H	H	H	M	H	H
CO5	H	H	H	H	H	H	H	H	H	H	H	H

Units	Content	Hrs.
Unit I	Introduction to cybercrime: classification – reasons. **Malware and its types:** Adware – Spyware – Browser hijacking software – Virus – Worms – Trojan Horse – Scareware. Kinds of cybercrime – Authentication - Encryption	10
Unit II	Digital Signature – Anti-virus – Firewall – Steganography – Computer Forensics. Reporting Cybercrime – Recent Cybercrime incidents – Cyber security initiatives in India.	8
Unit III	Generating secure password – Using password manager – Enabling two-step verification – Free Antivirus – Safe browsing – Safe browsing guidelines for social networking sites. Email security tips – Smartphone security guidelines.	12
	Total Contact Hrs.	**30**

Pedagogy:

Digital Presentation, Chalk and talk, Flipped class.

Assessment Methods:

Seminar, Quiz, Assignments.

Text Book

- Dr. Jeetendra Pande, "Introduction to Cyber Security", Uttarakhand Open University, Haldwani, ISBN: 978-93-84813-96-3.

Reference Books

- ATUL KAHATE. (2013). *CRYPTOGRAPHY and NETWORK SECURITY*. 3rd Edition, McGraw-Hill Education Pvt Ltd.

Course Designed by	Verified by HOD	Checked by	Approved by
Name and Signature	Name and Signature	CDC	COE
Name: V.Prabavathi Signature:	Name: K.Vijayakumar Signature:	Name: Mr. K.Srinivasan Signature:	Name: Dr. R. Manickachezian Signature:

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