

**Lecture Plan**

**Name of the College: Government College of Arts, Science and Commerce, Sanquelim - Goa**

**Name of Faculty:** Ms. Ruchi Paresh Fulari

**Subject:** Computer Science

**Paper code:** VAC 110 Awareness of Cyber Crimes and Security

**Program:** BCOM/BA

**Division:**

**Academic year:** 2024-2025

**Semester:** I

**Total Lectures:** 30

**Course Objectives:**

This course is intended to:

- Introduce to students the awareness of cybercrimes and cyber security – concepts, theory.
- Covers various techniques which enable the student to analyse the threats and attacks due to cybercrimes.
- Explains mitigation techniques and policies for cyber security.

**Course Outcome:**

Students will,

- Aware of the various cybercrimes and will able to guide others.
- Understand the global problems faced by individuals, organisations due to cybercrimes and attacks.
- Apply the cyber security analysis to mitigate and prevent such attacks.

**Student Learning Outcome:**

1. Understand the use of IT and word for the processes of documenting towards business and education.
2. Students will understand the use of Mail Merge along with linking with Database, Printing documents and Creating Business Documents, adding Bullets and numbering , inserting Header and footer , Tables Pictures and Videos.
3. Students can able to manage a worksheets, Formatting, Entering data, Editing ,apply different formulas on multiple spreadsheets and organize Charts and graphs.
4. Students are able to prepare a presentation.
5. Understand the concepts of E-commerce and different electronic payment system used in E-commerce along with the risks involved.

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
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July	08/07/24	13/07/24	2	Cyber Crime against Individuals and Organisations, Cyber Crime- Overview, Internal and External Attacks, Attack Vectors. Cybercrimes against Individuals – E-mail spoofing and online frauds, Phishing and its forms, Spamming,	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
July	15/07/24	20/07/24	2	Cyber-defamation, Cyberstalking, Cyber Bullying and harassment,	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
July	22/07/24	27/07/24	2	Computer Sabotage, Pornographic offenses, Password Sniffing , Keyloggers	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
July-August	29/08/02	03/08/24	2	and Screen loggers. Cyber Crimes against Women and Children.	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
August	05/08/24	10/08/24	2	Cybercrime against organization – Unauthorized access of computer	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
August	12/08/24	17/08/24	1	Password Sniffing, Denial-of-service (DOS) attack	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
August	19/08/24	24/08/24	2	Backdoors and Malwares and its types, E-mail Bombing, Salami Attack, Software Piracy,	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006

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							3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
August	26/08/24	31/08/24	2	Industrial Espionage, Intruder attacks. Security policies violations,	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
September	02/09/24	06/09/24	2	Crimes related to Social Media, ATM, Online and Banking Frauds. Intellectual Property Frauds. Cyber Crimes against Women and Children.	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
September	16/09/24	21/09/24	2	Global perspective on Cyber crimes and Cyber Security A global perspective on cybercrimes, Phases of cyber-attack – Reconnaissance, Passive Attacks,	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
September	23/09/24	28/09/24	2	Active Attacks, Scanning, Gaining Access, Maintaining Access, Lateral movement and Covering Tracks. Detection Avoidance, Types of Attack vectors, Zero-day attack, Overview of Network based attacks.	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
September	30/09/24	05/10/24	2	Introduction to Cyber Security. Confidentiality, Integrity and Availability Triad. Attacks: Threats, Vulnerabilities and Risk. Risk Management, Risk Assessment and Analysis.	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
October	07/10/24	12/10/24	2	Information Classification, Policies, Standards, Procedure and Guidelines. Controls: Physical, Logical and Administrative;	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004 2. Yar Majid; "Cybercrime and Society", Sage Publications, 2006 3. Matt Bishop, "Computer Security Art and Science", Pearson/PHI,
October	14/10/24	19/10/24	2	Security Frameworks, Defence in-depth: Layers of security. Identification and	Assignment	Smart Board	1. Jain Atul; "Cyber Crime: Issues, Threats and Management", 2004

				Authentication – Factors. Authorization and Access Controls- Models,			2. Yar Majid; “Cybercrime and Society”, Sage Publications, 2006 3. Matt Bishop, “Computer Security Art and Science”, Pearson/PHI,
October	21/10/24	-	1	Methods and Types of Access Control.	Assignment	Smart Board	1. Jain Atul; “Cyber Crime: Issues, Threats and Management”, 2004 2. Yar Majid; “Cybercrime and Society”, Sage Publications, 2006 3. Matt Bishop, “Computer Security Art and Science”, Pearson/PHI,

<b>Assessment Rubrics</b>	<b>Component</b>	<b>Max Marks</b>
	ISA 1	05
	ISA 2	05
	ISA 3	05(ISA best of 2)
	Project	-
	Semester End Exam	40