

**AN INTRODUCTION TO CYBER ATTACKS & SECURITY**

**VALUE ADDED COURSE**

**2021-2022**

**SUMMARY REPORT**

**Name of the Course:** AN INTRODUCTION TO CYBER ATTACKS & SECURITY

**Course Code:** VCCAS012

**Offering Body:** SAINTGITS COLLEGE OF APPLIED SCIENCES

**No. of students who opted the course:** 67

**Batch, class and semester to which the course was offered:**

Batch	Class	Semester
2019-2022	BCA	5 <sup>th</sup> semester

**Duration of the course:** 30 Hours



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## Topics Covered:

**Cyber Attacks:** - History, Definition and characteristics, Factors affecting cyber-attacks, Classification - Syntactic and semantic attacks, Other cyber-attacks - Financial Scams, Hacking, Copyrighted content, Pornographic content, Virus, Cyber stalking, Hate crimes, Outcomes of cyber-attacks- Fraud, extortion, Malware, Pharming, Phishing, Spamming, Spoofing, Spying, Denial of Service, Distributed denial of service, Theft of hardware, Messaging abuse, Infrastructures as targets - Control systems, Energy, Finance, Telecommunications, Transportation, Water, Hospitals.

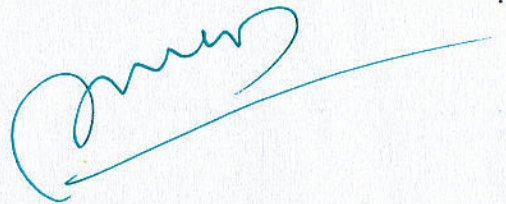
**Cyber Security:** - Definition, History, Fundamentals- The CIA Triad, Introduction to cyber space and cyber security, Cyber security challenges, Importance of cyber security, Security principles, Types of cyber security - Critical infrastructure security, Application security, Network security, Cloud security, Internet of things (IoT) security, Applications of cyber security.

**Critical Analysis to cyber laws in India:** - Introduction, Beginning of cybercrime era, Cybercrime in India, Cybercrime and cyber security, Consequences, How legal system deals with cyber terrorists, Information technology amendment act 2008 (ITAA 2008) – History Definitions, Penalties, Compensation and Adjudication, Case study of Indian and International cyber-attacks.

## Resource materials, Teaching Methodology:

Study materials and PowerPoint Presentation

practical sessions



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**Outcome of the course:**

After the completion of the course, the students are able to:

- Students will be able to understand the importance of cybersecurity and also get aware about the history and types of various cyber-attacks.

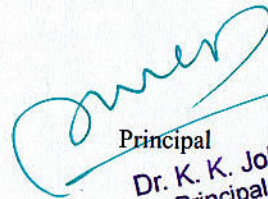
Prepared by,



VAC Coordinator



Approved by,



Principal  
Dr. K. K. John  
Principal  
Saintgits College of Applied Sciences  
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