

AN INTRODUCTION TO CYBER ATTACKS & SECURITY

VALUE ADDED COURSE

2020-2021

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: 59

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

Batch	Class	Semester
2018-2021	BCA	5 th semester

Duration of the course: 30 Hours

Topics Covered:

Cyber Attacks: - History, Definition and characteristics, Factors affecting cyber-attacks, Classification - Syntactic and semantic attacks, Other cyber-attacks - Financial Scams, Hacking,

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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

Outcome of the course:

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

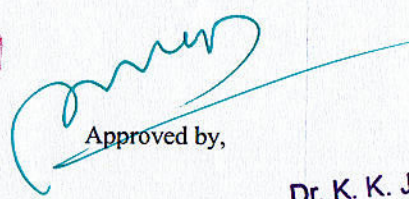
Students will be able to understand the importance of cybersecurity and also get aware about the history and types of various cyber-attacks.

Prepared by,


VAC Coordinator



Approved by,



Dr. K. K. John
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