

**Sri Krishna Dutt Academy,
Vrindavan Yojna, Raibareilly Road,
Lucknow (U.P.)**
(An Associated college of University of Lucknow)

VALUE ADDED COURSE

CYBER SECURITY

Duration : 30 hrs

COURSE OBJECTIVES

- To exhibit knowledge to secure corrupted systems, protect personal data, and secure computer networks in an organization.
- To understand principles of web security and to guarantee a secure network by monitoring and analyzing the nature of attacks through cyber/computer forensics software/tools.
- To understand cybercrime management standards, guidelines and procedures as well as the implementation and governance of these activities

UNIT I

6 lectures

Definition – Crime, Cyber Crime, Information Security, Digital Forensics – Conventional Crime Vs. Cyber Crime - Uniqueness of Cyber Crime – History of Cyber Crimes.

UNIT II

9 lectures

Forms of Cyber Crimes – Hacking – types of hacking, hackers, Cracking, Dos, DDos, Cyber Bullying, Cyber Stalking, Pornography, Phishing, Intellectual Property Theft, Data Theft, Dada diddling, malwares, stegnography, salami attacks, ATM and Credit card frauds, Telecom Frauds

UNIT III

8 lectures

Social Media – Definition, Types, advantages and disadvantages – Crimes through social media, victimization through social media – Do's and Don'ts in Social Media – Safe Surfing

UNIT IV

7 lectures

Understanding cyber criminal behavior – modus operandi - Criminological , Sociological and Psychological theories relating to cyber crime behavior.

Practical Work :

1. Write an algorithm for encoding and decoding the Hash based message authentication code.
2. Write an algorithm and program to implement data encryption (DES)
3. Write an algorithm to implement RSA standard for encryption and decryption.