



**PARVATHANENI BRAHMAYYA
SIDDHARTHA COLLEGE OF ARTS & SCIENCE**

Autonomous

Siddhartha Nagar, Vijayawada-520010

Re-accredited at 'A+' by the NAAC

23CSSDL102 [REDACTED]: Cyber Security

Offered to : ALL UG PROGRAMS

Semester: II

Year of Introduction: 2023 – 2024

Year of Offering: 2023 – 2024

Course Type: Skill Development - Theory

Hours : 30

Credits: 2

Course Description:

This course aims to give students a fundamental understanding regarding various cyber-attacks and their countermeasures.

Course Objectives:

1. To educate students about various types of security attacks and improve their personal cyber security.
2. To educate students about the importance of passwords and handling passwords along with avoiding social engineering.
3. To educate students about handling security incidents, data backup and recovery. This course also aims to give an overview of career opportunities in cyber security.

Learning Outcomes:

Course Outcome No	Upon successful completion of the course, a student will be able to:	Program Outcome No
CO1	Develop an understanding of cybercrimes and various legal perspectives involved.	PO6
CO2	Develop a security model to handle mobile, wireless devices and related security issues of an organization.	PO6
CO3	Use the cybercrime tools and methods in solving real world problems	PO6

UNIT - I:

8 hrs

Introduction to Cybercrime: Introduction, Cybercrime: Definition and origins of the word, Cybercrime and Information Security, who are cyber criminals? classifications of cybercrimes, cybercrime: the legal perspectives, an Indian perspective, cybercrime and the Indian IT Act 2000, a Global perspective on Cybercrimes.

UNIT-II:

12hrs

Cybercrime-Mobile and Wireless Devices: Introduction, Proliferation of Mobile and Wireless Devices, Trends in Mobility, Credit Card Frauds in Mobile and Wireless Computing Era, Authentication Service Security, Attacks on Mobile/Cell Phones.

Mobile Devices: Security Implications for Organizations, Organizational Measures for Handling Mobile Devices-Related Security Issues, Organizational Security Policies and Measures in Mobile Computing Era, Laptops.

UNIT-III:

10hrs

Tools and Methods Used in Cybercrime: Password Cracking, key loggers and Spywares, virus and worms, Trojan Horses and Backdoors, Steganography, attacks on wireless networks, Phishing and Identity Theft: Introduction, Phishing, Identity Theft (ID Theft).

Text Books:

1. Mark Rhodes, Ousley, Information Security, 1st Edition ,MGH, 2013.
2. Nina Godbole and SunitBelpure – Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives , 1st Edition Publication Wiley, 2011.

Activities Planned:

1. Identify a user of internet, label him as a cybercriminal or not.
2. Checklist for reporting cybercrime at Cybercrime Police Station.
3. Checklist for reporting cybercrime online.
4. Reporting phishing emails.
5. Demonstration of email phishing attack and preventive measures.
6. Checklist for secure net banking

Prescribed Text Book : Cyber Security for Dummies, Joseph Steinberg, Wiley

Reference Books : Cyber Security Essentials, Charles J Brooks, Christopher Grow,

Philip Craig. Wiley

Course Delivery method: Face-to-face / Blended

Course has focus on: Skill Development

Co-curricular Activities: Certification Courses, Quiz, Seminars, Group Discussions, Creating Cyber Security awareness among general public and other students by organizing campaigns.

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MODEL PAPER FOR SEM END THEORY EXAMINATION

23CSSDL104 : Cyber Security

Offered to : All UG Programs
Max. Marks : 50 (CIA: 15 + SEE: 35)
Time:2Hours

Semester: II
Hrs/Week: 2

SECTION A

Answer **ANY THREE** questions

3 X 5 = 15 Marks

1. Explain Cybercrime and its types. (CO1, L1)
2. Write about classification of Cybercrime.(CO1, L6)
3. Summarize Mobile devices. (CO2, L2)
4. Explain about Password Cracking. (CO3, L1)

SECTION B

Answer **ANY TWO** questions

2 x 10 = 30 Marks

6. Explain about Cybercrime and Cybercriminal. (CO1, L1)
7. Summarize Cyber-attacks. (CO2, L2)
8. Categorize and Explain Tools and Methods Used in Cybercrime. (CO3, L4)

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