



## ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

### SKILL COURSE

w.e.f. AY 2023-24

### SEMESTER-IV

### CYBER SECURITY

Credits: 2

2 hrs/week

---

#### Learning Outcomes:

Upon successful completion of the course, the students will be able to

- Develop an understanding of cybercrimes and various legal perspectives involved.
- Develop a security model to handle mobile, wireless devices and related security issues of an organization.
- Use the cybercrime tools and methods in solving real world problems

#### UNIT - I:

8hrs

**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.