

### **13. ETHICALHACKING**

<b>THEORY</b>	<b>50 Marks</b>
<b>PRACTICAL</b>	<b>50 Marks</b>

#### **COURSE OBJECTIVES**

The objective of this Course is to help the students to master an ethical hacking practice.

#### **UNIT I**

Introduction to Ethical Hacking- Internet Crime Current Report-Essential Terminology- Elements of Information Security -Motives, Goals, and Objectives of Information Security Attacks- Internet Crime Current Report-Essential Terminology-Elements of Information Security -Motives, Goals, and Objectives of Information Security Attacks

#### **UNIT II**

Hacking Concepts- Why Ethical Hacking is Necessary -Scope and Limitations of Ethical Hacking -Skills of an Ethical Hacker -Why Ethical Hacking is Necessary -Scope and Limitations of Ethical Hacking -Skills of an Ethical Hacker

#### **UNIT III**

Footprinting Concepts- Footprinting Terminology -What is Footprinting?-Why Footprinting?- Objectives of Footprinting-Email Footprinting- System Hacking- Cracking Passwords -Password Cracking-Password Complexity-Password Cracking Techniques -Types of Password Attacks

#### **UNIT IV**

Trojan Concepts- What is a Trojan?-Purpose of Trojans -Indications of a Trojan Attack-Anti-Trojan Software - Anti-Trojan Software: Trojan Hunter - Anti-Trojan Software: Emsisoft Anti-Malware.

#### **UNIT V**

Types of Viruses -System or Boot Sector Viruses -File and Multipartite Viruses - Macro Viruses -Cluster Viruses -Stealth/Tunneling Viruses-Encryption Viruses.

**Practical Component:** 10 simple Hacking Methods.

**RESOURCE PERSON: R.CAROLINE KALAISELVI**

**REFERENCE BOOKS:**

1. Hacking for Dummies, Book by Kevin Beaver
2. The Basics of Hacking and Penetration Testing: Ethical Hacking and Penetration ...  
Book by Patrick Engebretson