

# Biometrics

## Syllabus

### **Getting Started with Biometrics**

*Understanding Biometrics* : Types of Biometrics , Characteristics of Biometric Systems, Understanding Biometrics Issues, Protecting Biometric Data and Infrastructure

*Protecting Assets with Biometrics* : Biometric Concepts and Terms, Understanding the objective, Authentication, Authorization, and Accounting, Security as a goal, Environment as a factor, Cost as a limitation

*Biometrics in Our Lives* : Protecting biometric data, Protections against misuse, Ethics Issues with Biometrics, Controlling how your biometrics are used

### **Types of Biometrics**

*Fingerprint and Hand Biometrics* : Fingerprints, Palm Scan, Hand Veins, Sonar/Ultrasonic

*Signature Biometrics* : Recognizing a Signature, Understanding the biometric basis for signature recognition

*Retina and Facial Biometrics* : Identifying a Retinal Scan, Iris Scanning, Facial Imaging, Upcoming Head-based Biometrics

*Other Types of Biometric Identification Schemes* : Recognizing Speech, DNA as a Biometric Recognition Technique, Gait-Recognition Biometrics, Brainwave biometrics, Odor biometrics

*Implementing and Using Biometrics* : Selecting a Biometrics Solution, Tools Used in Biometrics

*Securing Biometrics Systems* : Biometric System Threats and Vulnerabilities

*The Future of Biometrics* : Improvements in Technologies