

JAYA ENGINEERING COLLEGE
DEPARTMENT OF COMPUTER SCIENCE
IT 2042 INFORMATION SECURITY

UNIT 1

1. Describe the critical characteristics of information. How are they used in the study of computer security?
2. Explain the system security development life cycle in detail.
3. Explain the Components of an Information System.
4. Explain system development life cycle in detail.
5. Explain the NISTSSC security model

UNIT 2

1. Explain about threats and their various categories
2. Explain about attacks and various types of attacks
3. Discuss the ethical concepts in information security and the various ways to deal with unethical practices
4. Explain the four important functions in information security in an organization
5. Explain general computer crime laws

UNIT 3

1. Explain risk management in detail
2. Explain risk identification in detail
3. Explain the risk control strategies in detail
4. Explain the risk mitigation strategies in detail

UNIT 4

1. Explain information security policies and practices
2. Explain about VISA International security model
3. Explain the NIST security model
4. Explain the various components used in designing security architecture
5. Explain Contingency Planning

UNIT 5

1. Explain about the physical access control devices in detail
2. Explain Intrusion Detection Systems in detail
3. Explain cryptographic algorithms in detail
4. Write notes on scanning and analysis tools used during design