

# **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **M.E. Computer Engineering (IT Systems and Network Security) Semester: II**

Subject Name: **PKI and Biometrics**

Subject Code: **725104**

### **Course Content:**

Understand Basic Encryption Concepts, Attacks Against Encryption, Understand Private Key Encryption Understand Public Key Encryption, Cryptography Fundamentals, Cryptographic Algorithm and protocols Symmetric Key Encryption Algorithms, Public Key Algorithms, Cryptographic issues, Strong Authentication Digital Signatures, PKI Standards, PKI Fundamentals, Implementing Security, Understand Key Management Understand Trust in the System, Sign-On Solutions, Secure E-Mail Implementation, File Encryption Solutions PKI Solutions and Applications, Legal Issues of Network Security.

### **Text Book:**

1. Cryptography & network Security: Principles And Practices, 4/e , William Stallings

### **Reference Book:**

1. Computer security basics, Rick Lehtinen, Deborah Russell, G. T. Gangemi