



C-DAC & Gujarat Technological University
M.E. Computer Engineering (Wireless
Mobile Computing) Gandhinagar

Semester: III

Subject Name: **Security in Wireless and Mobile Systems**

Subject Code: **2735302**

Course Content:

Overview: Security - Threats, Vulnerabilities, Attacks, Integrity, Confidentiality, Policy and relevant definitions

Authentication – Different techniques

Cryptography – Symmetric Key Cryptography, Asymmetric key Cryptography, Key management, Digital signatures, Certificate

Distributed Systems Security – Cipher techniques, Protection systems, Example protocols

Wireless and Mobile system security – Strategies, Routing security, Different schemes for MANET

Hardware Perspectives for End to End Security (E2E) in wireless application

Optimizing wireless security with FPGAs and ASICs

Text Book:

1. Wireless and Mobile Network Security by Venkataram/TMH
2. Wireless Security: Models, Threats and Solutions by Randall Nichols/TMH

References Books:

1. Wireless Security Essentials: Defending Mobile Systems from Data Piracy by Russell Dean Vines/john wiely & sons