### Sri Shridevi Charitable Trust (R.)

## SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

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Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

#### VALUE ADDED COURSE ON "NETWORK AND SECURITY ADMINISTRATION "

# **Syllabus**

- I. Introduction- Need for Security, Security Attacks, Model
- II. Symmetric Ciphers-Substitution & Transposition Techniques, Block Cipher, Stream Ciphers
- III. Public Key Cryptography- Need and Principles of Public Key Cryptosystems, RSA Algorithm
- IV. Authentication- Authentication Requirements, Message Authentication Codes, Hashes, User Authentication: Password, Certificate based & Biometric Authentication
- V. Network Security-Firewalls , IP Security, VPN, Intrusion Detection, Web Security, SSL, TLS

#### Assessment:

Students should obtain:

Min 80% of attendance Min 80% Participation in practice session Quiz

Dept of E&C SIET, Tumkur-6