

ELECTIVE COURSE II – 1-WIRELESS COMMUNICATIONS AND NETWORK

Objective: *In this course students shall learn the basis & structure of wireless protocols and how they stack up to constitute a network module that can run on a computer to enable it to network.*

UNIT-I

Introduction to Wireless technology – Transmission fundamentals – Communication networks – TCP/IP suite.

UNIT-II

Antennas and propagation – Signal encoding techniques – Basics of spread spectrum coding

UNIT-III

Wireless networking – Satellite networking – Cellular wireless networks –

UNIT-IV

Cordless systems & Wireless local loop - Mobile IP and wireless Access Protocols

UNIT-V

Wireless LAN technology – IEEE 801.11 Wireless LAN technology.

TEXT BOOK:

1. **William Stallings**, Wireless communications and networks, Second edition, Pearson education/ Prentice-Hall of India, 2007.