



STANLEY
COLLEGE OF ENGINEERING & TECHNOLOGY FOR WOMEN
(Approved by AICTE , New Delhi | Affiliated to Osmania University ,Hyderabad)
Address : Chapel Road, Abids ,Hyderabad

CS 414

ADHOC AND SENSOR NETWORKS
(Elective I)

UNIT I

Introduction, Routing in Ad Hoc Networks, Broadcasting, Multicasting and Geocasting

UNIT II

Wireless LANs, Wireless PANs, Wireless Mesh Networks

UNIT III

Cognitive Radio and Networks, TCP over Ad Hoc Networks, Applications of Sensor Networks

UNIT IV

Sensor Networks Design Considerations, Sensor Networks in Controlled Environment and Actuators

UNIT V

Security in Ad Hoc and Sensor Networks, Integrating MANETs, WLANs and Cellular Networks

Suggested Readings

1. Carlos de MoraesCordeiro and Dharma PrakashAgrawal, "Ad Hoc and Sensor Networks : Theory and Applications", Second Edition, World Scientific Publishers, 2011
2. PrasantMohapatra and Sriramamurthy, "Ad Hoc Networks: Technologies and Protocols", Springer International Edition, 2009
3. KazemSohraby, Daniel Minoli, TaiebZnati, "Wireless Sensor Networks", A John Wiley & Sons Inc. Publication, 2007