

IY087 MOBILE COMPUTING

3 0 0 3

1. **Introduction** **9**

Wireless Transmission – Signal Propagation – Spread Spectrum – Satellite Networks – Capacity Allocation – FAMA – DAMA – MAC.

2. **Mobile Networks** **9**

Cellular Wireless Networks – GSM – Architecture – Protocols – Connection Establishment – Frequency Allocation – Routing – Handover – Security – GPRS.

3. **Wireless Networks** **9**

Wireless LAN – IEEE 802.11 Standard – Architecture – Services – AdHoc Network – HiperLan – Blue Tooth.

4. **Routing** **9**

Mobile IP – DHCP – AdHoc Networks – Proactive and Reactive Routing Protocols – Multicast Routing.

5. **Transport And Application Layers** **9**

TCP over Adhoc Networks – WAP – Architecture – WWW Programming Model – WDP – WTLS – WTP – WSP – WAE – WTA Architecture – WML – WML Scripts.

TOTAL = 45

REFERENCES:

1. Jochen Schiller, “Mobile Communications”, PHI/Pearson Education, Second Edition, 2003.
2. William Stallings, “Wireless Communications and Networks”, PHI/Pearson Education, 2002.
3. Kaveh Pahlavan, Prasanth Krishnamoorthy, “Principles of Wireless Networks”, PHI/Pearson Education, 2003.
4. Uwe Hansmann, Lothar Merk, Martin S. Nicklons and Thomas Stober, “Principles of Mobile Computing”, Springer, New York, 2003.
5. C.K.Toh, “AdHoc Mobile Wireless Networks”, Prentice Hall, Inc, 2002.
6. Charles E.Perkins, “AdHoc Networking”, Addison-Wesley, 2001.