

M.Tech(IT) : Group C
Paper Code : MT31C
Paper Title: Wireless And Mobile Networks

SYLLABUS

1. Wireless Mobile Communication

Concept of Cellular communication (Mobile Unit, cell site, MTSO), frequency Allocation, radio propagation in Mobile Environment, Long Distance Propagation

2. Mobile Digital Systems

Global System for Mobile, BSS, NSS, OSS, Mobile Management, Location Up Date Management, Authentication, Encryption, Network Management, Signaling Format.

3. Cordless Telecommunication System

CT2-cordless Phone-2, System Structure, DECT, PDC, PCN, PCS, Non Cellular System, CDPS, MIRS.

4. Cellular Multiple Access Technologies

FDMA, TDMA, CDMA, NA-TDMA, GSM

5. Future Mobile Communication System

Intelligent Cell Concept, Intelligent Micro cells, description of the intelligent micro cell operation, Mobile Satellite Communication, LEO Satellite.

References

- a) Mobile and Personal communication System and Services- Raj Pandya
- b) Wireless Communication and Networks- William Stallings