

**UNIT I**

**Chapter 1 : Introduction to Mobile Computing**  
1-1 to 1-33

**Syllabus :**

Introduction to Mobile Computing, Telecommunication Generations, Cellular systems, Electromagnetic Spectrum, Antenna, Signal Propagation, Signal Characteristics, Multiplexing, Spread Spectrum : DSSS & FHSS

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GSM Mobile services, System Architecture, Radio interface, Protocols , Localization and Calling, Handover, security (A3,A5 & A8), GPRS system and protocol architecture, UTRAN, UMTS core network; Improvements on Core Network.

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