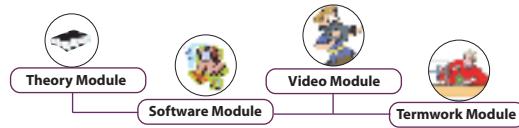


Mobile Communication



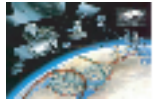
System Requirement:- IBM-PC Compatible with Window-OS, 128 MB RAM/Multimedia Kit

Theory module

Features : Theory, Figures, Photographs, Animations with controller, Highlighter tool, Note creation facility, Systematic page navigation, Printing facility, Access to Videos at appropriate locations.

List of Topics

Satellite Communication System



Classification of satellite, Satellite Look angles, Uplink and downlink Frequencies used, Satellite Footprint and altitudes, ground Station, Satellite Receiver.

Multiple Access Techniques

Satellite Multiple Access Formats, Frequency Division Multiple Access, Code Division Multiple Access, Time Division Multiple Access.



The Mobile- Radio Signal Environment



Mobile radio communication medium, propagation path Loss, multipath fading, delay spread, Co-herence Bandwidth.

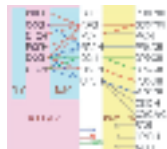
Mobile Cellular Telecommunication



Basic cellular system, operation of cellular systems, overview of analog and digital cellular system, Concept of frequency reuse channels, co-channel interference, reduction of co-channel interference, hand-off mechanism, cell splitting, consideration of components for cellular system.

Frequency Management and Channel Assignment

Frequency channel assignment, Frequency spectrum utilisation, fixed channel assignment, non fixed channel assignment.



Digital Cellular System



Introduction to digital technology, ARQ techniques, digital speech, digital mobile telephony.

Global Systems for Mobile



GSM Architecture, specification of GSM, Layer modeling(OSI model), radio resource (RR) Management, Mobility management(MM), Communication management(CM), Network management(NM).