

DETAILED SYLLABUS OF TELECOM EQUIPMENTS 1

COMMUNICATION THEORY

Introduction and Definitions of Communication, Transmitters, Receivers, Modulation and Demodulation, Power in Decibel, Bandwidth, Frequency Spectrum, Radio Frequencies and Other Higher Frequencies, AM, FM, SSB, DSBSC and their Bandwidths, RF amplification, Tuned amplifications, IF amplifiers, Noise, Signal to Noise ratio, Impedance Matching.

MODULATION THEORY

AM and FM Modulation, Phase Modulation, Demodulation, Frequency Multipliers, AFC, AGC, Pre-Emphasis and De- Emphasis.

PUSH BUTTON TELEPHONE

Introduction and P & T Standards, Concept and Definition of Various Phones, Decadic and DTMF Phones, Block Diagram of PBT, Study of the PBT ICs, Circuit Study of the PBT ICs, Study of Important Signals, Specifications and Characteristics, Troubleshooting.

CORDLESS PHONE

Introduction to Wireless Communications, Specifications of Cordless Phone, Identification and Block Diagram, Detailed Study of Various Blocks, Base Unit and Handset Circuit Study of Handset, Troubleshooting.