AMICE20 ANALOG & DIGITAL COMMUNICATION

ELEMENTS OF COMMUNICATION SYSTEM AND ITS LIMITATNS

UNIT-1 AMPLITUDE MODULATION

- 1.1 Amplitude modulation and detection,
- 1.2 Generation and detection of DSB-SC,
- 1.3 SSB and vestigial side band modulation,
- 1.4 Carrier acquisition AM transmitters and receivers,
- 1.5 Super hetrodyne receiver,
- 1.6 IF amplifiers,
- 1.7 AGC circuits,
- 1.8 Frequency Division multiplexing

UNIT-2 ANGLE MODULATION

- 2.1 Basic definitions arrow band and wideband frequency modulation,
- 2.2 Transmission bandwidth of FM signals
- 2.3 Generation and detection of frequency Modulation

UNIT-3 NOISE

- 5.6 External noise,
- 5.7 Internal noise calculations,
- 5.8 Signal to noise ratio Noise in AM and FM systems

UNIT-4 PULSE MODULATION

- 4.1 Introduction,
- 4.2 Sampling process
- 4.3 Analog Pulse Modulation Systems
- 4.4 Pulse Amplitude Modulation,
- 4.5 Pulse width modulation and Pulse Position Modulation.

Reference Books:

- 1. B.P. Lthi, "Modern Analog & Digital Communication Systems" Oxford University Press.
- 2. Taub & Schilling, "Communication System: Analog and Digital" Tata McGraw Hill R. P.
- 3. Singh & S.D. Sapre, "Communication Systems Analog and Digital" Tata McGraw Hill