

SYLLABUS :-

Pre-requisites: EC31002 and EC31008 Digital speech communication; Digital TV communication; Characteristics of speech signals; Characteristics of picture signals; Subjective and objective testing; Bit rates in speech and picture communication; ITU-T recommendations for speech digitization; HDTV, Low resolution TV and Videoconferencing requirements; Time domain waveform coding of speech-PCM, DPCM, ADPCM, and DM; Frequency domain waveform coding of speech-LTC, ATC; Parameter coding of speech-channel, format and LPC vocoders; Coding of monochrome and colour video signals-Transform and Adaptive transform coding; Subband coding; Vector quantisation; Interframe and Hybrid coding; Delayed decision and run length coding; Effects of transmission errors; Audio and Video conferencing; Video telephone.