Khaja Bandnawaz University, Kalaburagi Faculty of Engineering and Technology Department of Electronics and Communication Engineering

Ph.D. Entrance Exam Syllabus

Specialization: Digital Communication (M.Tech Level)

Digital Communication:

Signals & Systems:

Fourier series, Fourier Transform, Laplace Transform, Z-transform Sampling theorem, aliasing, reconstruction Random variables & stochastic processes PSD, autocorrelation, stationarity, ergodicity

Digital Modulation Techniques:

ASK, FSK, PSK, DPSK, QPSK, QAM, MSK, GMSK, OFDM, MIMO-OFDMBER performance in AWGN & fading channels Coherent & non-coherent detection

Digital Communication Systems:

Spread spectrum: DSSS, FHSS, CDMA,

Wireless Communication:

Multiple access: FDMA, TDMA,