Annexure - 1

Ph.D. Entrance 2019-20

Syllabus for Section- B:

Signals and their properties, Systems and their characterisation, Laplace Transform, Z-transform, Time Frequency Analysis – Fourier Transform, Short Time Fourier Transform, Wavelet Transform; Signal Model – Autoregressive (AR), Moving Average (MA) and Autoregressive Moving Average (ARMA); FIR and IIR filters, Linear Filter Structures, Probabilistic concepts – axioms, relative frequency, joint and conditional probability, independence; Random Variables and Random Processes, Ergodicity, Stationarity, Independence and Correlation functions, Biomedical Signals – EEG, ECG, EMG; Biopotentials and their measurements.