SYLLABUS :-

Pre-requisites: EC61501Pattern Representation: features, feature vectors; Supervised classification: Bayes' Rule, Bayes' classifier, minimum risk classifier, minimum distance classifier, PDF estimation from samples, lLnear discriminator, Perceptron criterion, MSE criterion, Multi class classification, Kesler's construction, Ho-Kashyap procedure; Unsupervided classification: Nearest neighbor, KNN classifier, MSE clustering, k-means clustering, fuzzy k-means clustering; Neural Pattern Recognition: Probabilistic neural network, multi-layer perceptron; Image understanding: Review of segmentation, Image component description – boundary representation, region representation; Image component representation: feature vector representation, graphical representation; Image Interpretation: Pattern recognition techniques, graphical techniques.