Pattern Recognition
CS703A
Contracts: 3L
Credits- 3

Module - I
Introduction - Definitions, data sets for Pattern Recognition   [2]
Different Paradigms of Pattern Recognition   [1]
Representations of Patterns and Classes   [2]
Metric and non-metric proximity measures   [2]

Module - II
Feature extraction   [2]
Different approaches to Feature Selection   [1]
Nearest Neighbour Classifier and variants   [2]
Efficient algorithms for nearest neighbour classification   [2]

Module - III
Different Approaches to Prototype Selection   [2]
Bayes Classifier   [3]
Decision Trees   [3]
Linear Discriminant Function   [3]

Module - IV
Support Vector Machines   [2]
Clustering   [3]
Clustering Large datasets   [2]
Combination of Classifiers   [2]
Applications - Document Recognition   [2]

REFERENCES
1. Devi V.S.; Murty, M.N. (2011) Pattern Recognition: An Introduction, Universities Press, Hyderabad.
2. R. O. Duda, P. E. Hart and D. G. Stork, Pattern Classification, Wiley, 2000.