

SYLLABUS :-

Introduction to expert systems - Definition, Need for expert systems, Methods of developing expert system - offline training/learning & on-line training/learning

Tools for developing expert systems - Hard Computing vs. Soft Computing, Fuzzy Set Theory, Fuzzy Logic Controllers (FLC), Neural Network (NN) Controllers - back propagation network, SOM, radial basis function networks, recurrent neural networks etc., Learning/optimisation tools - traditional (direct search and gradient based) and non-traditional (genetic algorithms (GAs), simulated annealing etc.) techniques. Combined techniques of soft computing - GA-FLC, GA-NN, NN-FLC, GA-FLC-NN

Some Applications