

Course: Introduction to Soft Computing

Course Code: noc20-cs17

Session: 2019-20

Duration: 8 Weeks

Assessment procedures: Weekly Assignment (25%) + proctored certification Exam (75%)

Curriculum of the Course:

Week 1: Introduction to Soft Computing, Introduction to Fuzzy logic, Fuzzy membership functions, Operations on Fuzzy sets

Week 2: Fuzzy relations, Fuzzy propositions, Fuzzy implications, Fuzzy inferences

Week 3: Defuzzification Techniques-I, Defuzzification Techniques-II, Fuzzy logic controller-I, Fuzzy logic controller-II

Week 4: Solving optimization problems, Concept of GA, GA Operators: Encoding, GA Operators: Selection-I

Week 5: GA Operators: Selection-II, GA Operators: Crossover-I, GA Operators: Crossover-II, GA Operators: Mutation

Week 6: Introduction to EC-I, Introduction to EC-II, MOEA Approaches: Non-Pareto, MOEA Approaches: Pareto-I

Week 7: MOEA Approaches: Pareto-II, Introduction to ANN, ANN Architecture

Week 8: ANN Training-I, ANN Training-II, ANN Training-III, Applications of ANN

List of students enrolled

S. No	Name
1	Disha Garg
2	Yash Khandelwal
3	Rohan Sharma

4	Saurabh Sharma
5	Sneha Sharma
6	Tanya Khandelwal