

GUJARAT UNIVERSITY

K. S. SCHOOL OF BUSINESS MANAGEMENT
[Five Years' (Full-time) Integrated Degree Course]

Semester-8 [M.Sc. (CA & IT)]

Subject Code: - KS_C_CC-488

Subject Name: - Project – Emerging Technologies – Soft Computing

Course Credit: - 5

Prerequisite:

Clear understanding of the subjects KS_C_CC-113, KS_C_CC-123 and KS_C_CC-237 which will help to understand the concept of Soft Computing and execute the project .

Theoretical concept to be discussed in the Class:

- Introduction to Soft Computing
- Introduction to Fuzzy logic, Fuzzy membership functions, Operations on Fuzzy sets, Fuzzy relations, Fuzzy propositions, Fuzzy implications, Fuzzy inferences, Defuzzification Techniques
- Solving optimization problems: Concept of GA, GA Operators
- Introduction to ANN, ANN Architecture, ANN Training.

Project:

- Application of Soft Computing.
- Each project to be guided by concern faculty member.

Reference Books:

1. *Neural Networks, Fuzzy Logic and Genetic Algorithms: Synthesis & Applications*, S. Rajasekaran, G. A. Vijayalakshami, PHI.
2. *D. E. Goldberg, Genetic Algorithms in Search, Optimisation, and Machine Learning*, Addison-Wesley