

UNIT-V (~8 Lecture Hours)

APPLICATIONS OF AI TECHNIQUES

Load forecasting, Load flow studies, Economic load dispatch, Load frequency control, Single area system and two area system, Reactive power control, Speed control of DC and AC Motors.

TEXT BOOKS:

1. S. Rajasekaran and G.A.V. Pai "Neural Networks, Fuzzy Logic & Genetic Algorithms", PHI, New Delhi, 2012.
2. Rober J. Schalkoff, "Artificial Neural Networks", Tata McGraw Hill Edition, 2011.

REFERENCE BOOKS:

1. P.D. Wasserman; "Neural Computing Theory & Practice", Van Nostrand Reinhold, New York, 1989.
2. Bart Kosko, "Neural Network & Fuzzy System", Prentice Hall, 1992
3. D.E. Goldberg, "Genetic Algorithms", Addison-Wesley 1999.
4. Timothy J. Ross, "Fuzzy Logic with Engineering Applications", 3rd Edition John Wiley & sons -2011.

Course Outcomes: After this course, the student will be able to

1. Understand soft commanding methodologies, such as artificial neural networks, Fuzzy logic and genetic Algorithms.
2. Develop feed forward neural networks, feedback neural networks and learning techniques.
3. Apply fuzzy logic principles in various systems and fuzzy set theory.
4. analyze genetic algorithm, genetic operations and genetic mutations.
5. Apply fuzzy logic control in electrical engineering
6. Apply genetic algorithm in electrical engineering.

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3) E.M.

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