CE 704: OPTIMIZATION TECHNIQUES IN WATER RESOURCES SYSTEMS (3-0-0:3)

Topics:

- Basic concepts of systems.
- LP.
- NLP.
- Dynamic programming.
- Genetic algorithm.
- Application of optimization techniques in surface and sub surface water flow problems
- Application of optimization techniques in reservoir operation problems.
- Application of optimization techniques in sediment flow problems

References:

1. D. P. Loucks, P. J. R. Stedinger, D. A. Haith, *Water Resources Systems Planning and Management,* Prentice Hall.
2. G. S. Neil, *Water Resources Planning,* McGraw Hill.