

Objectives and Course Content of Short Term Courses

Operational Plan No.	AS-13
Name of the Course	Optimization Techniques
Objectives of Course	The objective of this course is to give relevant knowledge about general optimization techniques, theoretical aspects and their uses in engineering fields.
Course Content	The course will cover contents related to- Optimization Techniques- Introduction, Simple Optimization techniques, Non linear optimization – NLPPs, Simplex Method (Big M and Two phase methods), Natured Inspired Optimizations, overview of PSO, Genetic algorithm, Optimization with MATLAB, Demonstration of LINGO and Mathematica software and Use of OT in engineering problems, Numerical illustrations and assessment etc.
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