

Title of the course: Optimization Theory and Practice

Engineers/Mathematicians must make decisions regarding the distribution of expensive resources that will be economically beneficial to the society. This problem can be formulated and logically analyzed with optimization theory. This short term course shows the above groups how to use optimization theory to solve complex problems. This course covers the theory and application of optimization technique in the various filed of Engineering, Mathematics, and Management Sciences.

Basic course structure includes Optimization Theory, Multi-objective Optimization, Numerical Optimization and Applications with Lab classes. It also unifies the large field of optimization with a few geometric principles which covers subjects with minimum mathematics.

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