



**Course Contents**

**5 Days Workshop on Designing GUI and Optimization  
by using MATLAB & SIMULINK**

Sr. No	Topic
<b>Optimization in MATLAB</b>	
1	Introduction to Optimization and Evolutionary Computation
2	Evolutionary Computation
3	Features, Advantages and applications of Evolutionary Computation
4	Genetic Algorithm and Genetics
5	Comparison of Conventional optimization and GA
6	Advantages and limitations of GA
7	Simple GA technique and algorithm
8	Applications of GA
9	GA Implementation using MATLAB
10	PSO, SA and other optimization tool boxes of MATLAB
11	Handling Graphics in MATLAB
12	GUI of MATLAB
13	Designing and interfacing GUI
14	Handling input and output files and data by using GUI

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