



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

The workshop is consists of different sub modules with the focus on making the participant comfortable in working and handling different engineering tasks in MATLAB and SIMULINK. The workshop may be a refresher for participants who already know about working in MATLAB & SIMULINK and starter for who don't know how to work in MATLAB. Few of the objectives are mentioned bellow:

Designing GUI and Optimization by using MATLAB and SIMULINK

This part of the workshop is design to enhance understanding, learning and working capabilities of participants to design graphical user interface in MATLAB and Optimization by using GA in MATLAB in efficient manners. Following few minor objectives are outlined which will help to achieve the forth mentioned objective.

This workshop will help participant to understand, learn and apply:

- How to handle graphics
- How to make GUI
- How to implement and design the GUI in MATLAB
- What are Different Optimization Techniques
- What are differences between GA and other Optimization Techniques
- What is Evolutionary Computation
- What are similarities of GA and genetics
- How GA works
- Terminologies and operators of GA
- What are advantages and applications of GA
- What are the limitations of GA
- How GA can be implemented by using GA tool box in MATLAB

Above mentioned minors objectives are just a few count, instructor hope much more learning outcomes during the class by close and better interaction.

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