

5<sup>th</sup>-9<sup>th</sup> December 2016

9:30 P.M. to 04:45 P.M.

# A 5-DAYS SHORT TERM TRAINING PROGRAM (STTP)

## Objective of STTP:

□ providing a common platform to all engineering graduates, post graduates, academicians, researchers and field engineer's to learn basics and detailed knowledge of modern Computing Techniques and tools for engineering problems.

### Convener:

Dr. Ami H. Shah,  
Principal, SRPEC, Unjha,

### Coordinator,

Prof. Vineet Jain, Asst.  
Prof., SRPEC, Unjha

Prof. Utkarsh Nigam,  
Asst. Prof., SRPEC,  
Unjha

### Expert Speaker:

Dr. Nitin Padhiyar,  
Prof., IIT, Gandhinagar

Dr. Ranjan Kumar Jana,  
Prof., SVNIT, Surat

Dr. Yash Vasavada,  
Prof., DAIICT,  
Gandhinagar

Dr. K. B. Judal, Prof.,  
GEC, Patan

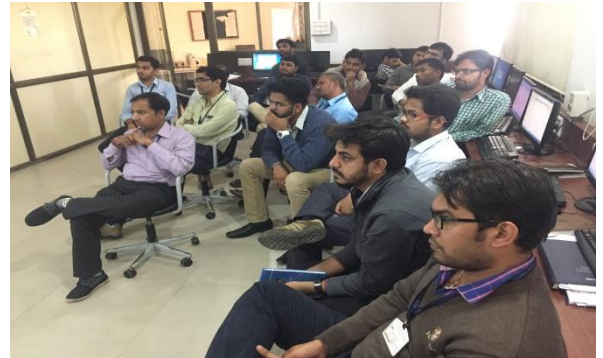
## *A 5 Days STTP on "Advanced Engineering Optimization Through Modern Computing Techniques"*

STTP's prime objective is to provide a common platform to all engineering researchers, post graduates, academicians, and field engineers to learn basics and detailed knowledge of Modern Computing Techniques such as SPSS, AHP, ANN, Fuzzy Logic to resolve engineering and optimization problems.

It is a common knowledge gaining program to gain and increase the basic of research methodology and quantitative analysis in engineering in which experts will elaborate and explain the course content in details. Separate hands-on-practice-session on each prescribed soft computing techniques will be demonstrated and performed.

### Major points discussed:

1. Linear Programming Problems.
2. Dynamic Programming and its importance
3. MATLAB: Basics and programming for use in LPP and DP
4. ANN techniques in MATLAB and its applications.
5. Genetic Algorithm (GA) techniques and its applications.
6. Development of Fuzzy Logic (FL) based model and its applications in engineering.
7. Optimization using Analytical Hierarchy Process (AHP) techniques.
8. Hands-on-practice sessions on ANN, GA, FL and AHP.



### Address:

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