

Civil Engineering
Department

5th-9th December, 2016



SMT. S. R. PATEL ENGINEERING COLLEGE

One Day Workshop Report

SHORT TERM TRAINING PROGRAM ON “Advanced Engineering Optimization Through Modern Computing Techniques”

Objectives:

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.

Expert:

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

Basic Topics Covered:

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 5. MATLAB and its applications.

6. Genetic Algorithm (GA) techniques and its applications.

7. Development of Fuzzy Logic (FL) based model and its applications in engineering.

8. Optimization using Analytical Hierarchy Process (AHP) techniques.

Hands-on-practice sessions on



Convener of The STTP

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

Coordinator of The STTP

1. Prof. Vineet Jain Asst. Prof., SRPEC, Unjha.
2. Prof. Utkarsh Nigam, Asst. Prof., SRPEC, Unjha.

EXCLUSIVE FEATURES OF STTP

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.