Short Term Training Programme on "Application of Optimization Techniques using MATLAB-2015 (AoOTuM-2015)"

Date: 21st to 25th Dec 2015

Content of STTP:

1. MATLAB : Graphics and GUI application
2. MATLAB: Basics and programming with graphic applications
3. ANN techniques in MATLAB and its applications.
4. Genetic Algorithm (GA) techniques and its applications.
5. Development of Fuzzy Logic (FL) based model and its applications in engineering.
6. Optimization using Analytical Hierarchy Process (AHP) techniques.
7. Hands-on-practice sessions on ANN, GA, FL and AHP.

1. MATLAB : Graphics and GUI applications with programming by Dr, Sanjay N. Sampat, Head I/C, Govt. Polytechnic Gandhinagar.
2. MATLAB: Basics and programming with graphic applications by Prof. Nikita Patel, Prof. H.C.Patel, Prof Jayshree P. Patel, Asst. Prof., S.R.P.E.C., Unjha
3. ANN techniques in MATLAB and its applications. By. Prof. Rishi Kumar, Asst. Prof., S.R.P.E.C., Unjha
4. Genetic Algorithm (GA) techniques and its applications. By. Prof. Rishi Kumar, Asst. Prof., S.R.P.E.C., Unjha
5. Development of Fuzzy Logic (FL) based model and its applications in engineering. Prof Utkarsh Nigam, Asst. Prof., S.R.P.E.C., Unjha
6. Optimization using Analytical Hierarchy Process (AHP) techniques. Prof. Vineet Jain, Asst. Prof., S.R.P.E.C., Unjha

STTP Theme and Objectives:

STTP's prime objective is to provide a common platform to all engineering graduates, post graduates, academicians, researchers and field engineer's to learn basics and detailed knowledge on MATLAB and its tools for engineering problems. Also to carry out hands-on-practice sessions for active learning and knowledge of optimization tools such as Artificial Neural Networks, Genetic Algorithms, Fuzzy Logic and Analytical Hierarchy Process covering wide range of engineering applications. It is a common knowledge gaining program to gain and increase the basic of graphics, Graphical User Interface (GUI) and MATLAB programming in which experts will elaborate and explain the course content in details. Separate hands-on-session on each prescribed soft computing techniques will be performed.

Name of the Convener, **Dr. Ami H.Shah, Principal, SRPEC, Unjha,**

Name of Co-coordinator, **Prof. J.R. Patel, Asst. Prof., SRPEC, Unjha**

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