

**A Two Days**  
**Hands-on MATLAB® Training Program on**  
**Soft Computing: Artificial Neural Network, Fuzzy Logic & Genetic Algorithm**  
**(Without using built-in toolbox functions)**  
**on 14<sup>th</sup> and 15<sup>th</sup> October 2017**

Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
(Autonomous)

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**Objective of this workshop:**

In recent years soft computing has emerged as a practical technology, with successful applications in many fields. The majority of these applications are concerned with problems in pattern recognition and machine learning. Historically, many concepts in neural computing have been inspired by Biological networks. This workshop clarifies different types of ANN models (supervised & unsupervised) with handwork numerical exercise followed by MATLAB® exercise to analyze and visualize various architecture, learning behaviors and application areas.

Fuzzy Sets originated in a paper by LotfiA.Zadeh in 1965. Since then, it has grown drastically. Doors opened in commercial market for the applications of fuzzy sets and fuzzy logic, after the publication by Mamdani in the year 1975. Genetic Algorithm is a method for solving both constrained and unconstrained optimization problems based on natural selection process that mimics biological evolution model. The theory of natural selection proposes that the plants and animals that exist today are the result of millions of years of adaptation to the demands of the environment.

The objective of this workshop is to experience the understandings of ANN, Fuzzy Logic & GA in a clear way with hand worked numerical exercise followed by MATLAB® program to realize various applications of Soft Computing ranging from Image Processing, Data Mining, Pattern Recognition to AI.

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**REGISTRATION FORM**

**Name**\_\_\_\_\_

**Qualification**\_\_\_\_\_ **Designation**\_\_\_\_\_

**Institute**\_\_\_\_\_

**Address for Communication** \_\_\_\_\_

\_\_\_\_\_

**Email:**\_\_\_\_\_

**MobileNo:**\_\_\_\_\_

**Place:**

**Date:**

**Signature of the Participant**