

Objective of the Programme:

The objective of this FDP is to provide a platform for discussion on recent advances in soft computing and optimization. As the main motive behind the programme is to provide hands-on training for the participants apart from describing the fundamental concepts, more emphasize will be given on hands-on sessions using MATLAB software to enable the participants to gain practical knowledge on Neural network, Fuzzy logic, Adaptive Neuro-Fuzzy Inference System (ANFIS) and Optimization techniques and its applications for engineering research.

Topics to be Covered:

- (i) Introduction to MATLAB program and SIMULINK
- (ii) Artificial Neural Network
- (iii) Fuzzy logic technique
- (iv) Adaptive Neuro-Fuzzy Inference System
- (v) Optimization Techniques
- (vi) Hands-on practice using ANN, Fuzzy logic and ANFIS tool box of MATLAB

Resource Persons:

Eminent Resource persons from the leading Institutions will handle the sessions.

Eligibility:

- a) Engineers from R&D Organizations / Industries
- b) Faculty from Engineering colleges / Polytechnic
- c) PG students / Research Scholars (FT/PT)

Registration Fee:

- i) Faculty / Industrialist : Rs.500/-
- ii) PG Students / Research Scholar : Rs.300/-

Registration fee will be spent for lunch, refreshments and participation certificate. The course material will be issued to all the participants.

Chief Patron

Sri. R. Vijayakumhar, Managing Trustee

Patron

Thiru. D. Lakshminarayananaswamy,
Joint Managing Trustee

President

Dr. M. Paulraj, Principal

Convener

Dr. N. Devarajan, Dean (Research)

Organizing Secretary

Dr. M. Mohamed Iqbal, Asst. Prof. (Sl. Gr.)/EEE

Coordinator(s)

Mr. K. Maharaja, AP/EEE

Ms. S. Gomathy, AP/EEE

Ms. M. Nishanthi, AP/EEE

Important Dates:

Last date for receipt of registration form: 08.08.2017

As the number of registration is limited, the registration will be done by first come first served basis only.

Address for Correspondence:

Participants are requested to send the duly filled-in registration form through post or E-Mail as mentioned below. Registration fee for the programme can be paid by taking the Demand Draft drawn in favor of “**EEE Association**” payable at Coimbatore. The spot registration is also permitted for the participants who confirms their participation by mail.

**The Coordinator,
FDP on SCTMER,
Department of EEE,**

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**SRI RAMAKRISHNA INSTITUTE OF
TECHNOLOGY,
(An Autonomous Institution)
COIMBATORE - 641 010.**



**Three Days
Faculty Development Programme
On
Soft Computing Techniques using MATLAB for
Engineering Research (SCTMER)**

09-11 August 2017



Organized by

**Department of Electrical and Electronics
Engineering**

In Association with

**The Institution of Engineers (India) Students Chapter
Sri Ramakrishna Institute of Technology
(Approved by AICTE, New Delhi, Accredited by NBA and NAAC
with 'A' Grade, Affiliated to Anna University)**

**Pachapalayam, Perurhettipalayam,
Coimbatore-641010.**

About the Institution:

Sri Ramakrishna Institute of Technology (SRIT) is an autonomous and one of the leading technical institutions of the prestigious SNR Sons Charitable Trust, Coimbatore. SRIT was established in the year 2002, approved by AICTE and affiliated to Anna University. The College offers 6 UG and 2 PG Programmes. Being located in a beautiful environment surrounded by hillocks, SRIT has excellent infrastructure, dedicated faculty, able supporting personnel, State of art Laboratories, State of art Library and well connected Transport system. Thiru.R.Vijayakumhar is the Managing Trustee and Thiru.D.Lakshminarayanawaswamy, is the Joint Managing Trustee, Thiru.S.Narendran and Thiru. R.Sundar, are the Trustees, Mr.C.V.Ramkumar, CEO and Dr. A. Ebenezer Jeyakumar, Director (Academics) of SNR Sons Charitable Trust. Dr. M. Paulraj at the helm of affairs as Principal of SRIT administers the academic and research growth of the Institution.

About the Department:

The Department of Electrical and Electronics Engineering was established in the year 2002 and Accredited by NBA. The Department has been strengthened by the experienced and well qualified senior professors and other dynamic faculty members. All the faculty members are equipping their students to excel in their career and guide them to grab the opportunity to work in diverse establishment like Electricity Board, Power generation, Instrumentation, measurement and Control area. The department has well established Electrical Machines, Power System Simulation, Power Electronics, Solar and control System laboratories with the State of Art Computing facilities by having more than 50 Computers packed with latest versions of ETAP, labVIEW, MATLAB, MATHCAD, and PSCAD/EMTDC software. The department is equipped with all modern instruments and teaching aids to enable the students to master the basics. The department is headed by Dr.N.Devarajan M.E., Ph.D.

Trends in Soft Computing Techniques:

Soft computing generally referred as Computational Intelligence is the use of imprecise solutions to the computationally hard tasks. It differs from the conventional hard computing techniques in terms of tolerant to imprecision, uncertainty, partial truth and approximation. In recent years, engineers and researchers have accepted the soft computing techniques such as Neural Networks, Fuzzy set theory, Evolutionary computation, Probabilistic computing etc. for the modeling, numerical analysis and control of various engineering problems.

There are wide range of real time application areas concerned with soft computing which includes data analysis and data mining, optimization, fault diagnosis, control, pattern recognition, signal processing, image and video processing as well as traffic and transportation systems, parameter estimation, system identification, robust solution, adaptive system, self-organization and failure analysis, multi-objective optimization etc. However, the idea behind soft computing is to model cognitive behavior of human mind and it is a foundation of conceptual intelligence in machines.

About the FDP:

Soft computing offers an attractive opportunity to represent the ambiguity in human thinking with real life uncertainty. Soft computing techniques encompasses fuzzy logic, genetic algorithms, and neural networks, and it has emerged as an effective tool for dealing with control, modeling, and decision problems in complex systems.

This Faculty Development Programme aims to bring together experts from industries, academic, R&D institutions and other user communities on a common platform to discuss and share their expertise and ideas about advanced technologies and trends in Soft Computing.

DEPARTMENT OF EEE SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY, COIMBATORE.



Three Days Faculty Development Programme on Soft Computing Techniques using MATLAB for Engineering Research (SCTMER) (09-11 August 2017)

REGISTRATION FORM

Name:

Designation:

Department:

Qualification:

Organization:

Address:

Contact No:

E-Mail:

Registration Details

Amount:.....DD.No:.....

Bank & Date:.....

Accommodation Required: Yes/No

Place:

Date:

Signature of the Candidate

Sponsorship Certificate

Dr/Mr/Ms.....is currently working / studying in our college/industry and he/she has been sponsored for attending Three Days FDP at SRIT.

Place:

Date:

Head of the Institute / Organization