

## HOW TO APPLY

Registration Fee: **Rs. 590/-** only per participant

The course fee includes Course Certificate, course kit which includes Course Materials, Software tools, lunch and refreshments.

The applicants should send their applications in the specified format (available in the next page) along with the Demand Draft (DD) drawn in favour of “**IIPCELL GRANT-IN-AID A/C**” payable at **Perundurai** to reach us on or before **28<sup>th</sup> August 2019**.

Contact if any clarification is required: **9843626288**

**Application form with DD is to be sent to:**

**Dr.M.Karthik**

Electrical and Electronics Engineering

**Co-ordinator**

Workshop on “**Neural Networks in Engineering Applications using MATLAB**”

Department of Electrical & Electronics Engineering

Kongu Engineering College

Perundurai, Erode -638060. TamilNadu

Mobile: **9843626288**, 9787325879

Email id: [karthik.prm@gmail.com](mailto:karthik.prm@gmail.com), [sivachitra@kongu.ac.in](mailto:sivachitra@kongu.ac.in)

## SCHEDULED DATES

Last Date for Receipt of Applications : 28 August 2019

Date of intimation regarding selection : 29 August 2019

Confirmation by Participants : 30 August 2019

The details of this One day Workshop with Hands-on Training is available in the website

**<http://www.kongu.ac.in>**

## TOPICS TO BE HANDLED

- Review of Neural Networks: **BPN** and **RBFN**
- Extreme Learning Machine (**ELM**) Algorithm
- Fast Learning **Fully Complex Classifiers**
- **Online-Sequential ELM** Algorithm

**Hands-on Training using MATLAB for:**

- Neural Networks in **Fuel Cell: Prediction**
- Neural Networks in **Wind Profile: Prediction**
- Neural Networks in **EEG Signal Classification**
- Neural Networks in **Bio-Informatics:**

**Parkinson's disease**

## ABOUT THE DEPARTMENT

The Electrical and Electronics Engineering department occupies a prominent place in the chronicles of its academic history. The department has been consistently producing illustrious Engineering graduates of high caliber who occupy prestigious positions in the academic and industrial fields. The specialization of the faculty includes Power System Engineering, Computer Networks, Power Electronics, Control Systems, VLSI, Bio-Medical Engineering, Digital Signal Processing, Advanced drives, Automation, Instrumentation and Control etc. The department offers four year UG programme in EEE and two year PG programmes in Power Electronics and Drives and Applied Electronics

## WHO CAN BENEFIT??

This Workshop with Hands-on Training is beneficial **for Diploma, UG & PG Students**. The workshop is especially for the benefit of the students who are doing projects in the field of Neural Networks.

## KONGU ENGINEERING COLLEGE

Conducts

One day Workshop with Hands-on Training  
On

**Neural Networks in Engineering  
Applications using MATLAB**

**31<sup>st</sup> August, 2019**



**Co-ordinators**

**Dr. M.SIVACHITRA**

**Dr. M.KARTHIK**

**Dr.S.USHA**



Estd : 1984

**Department of Electrical & Electronics Engineering**  
in association with IIPCell

**Kongu Engineering College**

(Autonomous)

Perundurai, Erode-638060, Tamilnadu

## ABOUT THE HANDS-ON TRAINING

A great deal of research is going on in Artificial Neural Network worldwide. It plays a major role in solving complex real world application scenarios. Artificial Neural Networks have been developed as generalization of mathematical models of biological nervous systems. Neural Networks are employed to solve problems of non-linear regression, optimization, etc. in the field of Electrical system, Control system, Biomedical image and signal processing. Keeping in view the necessity of Neural Network Applications, this workshop is organized to acquaint the participants with different Scientific Research Methods and Techniques to help them facilitate better decisions and initiate appropriate action programs and interventions. The scope of this programme is to make a brief introduction to models of networks, for then describing in general terms ANNs. As an application, we explain and start with the Back Propagation (BPN) and Radial Basis Function (RBFN) algorithm, since it is widely used and many other algorithms are derived from it. Next, the tuning free algorithm namely Extreme Learning Machine (ELM) will be covered with prediction and classification applications. Also, a Novel online sequential learning ELM algorithm will be discussed and hands on training will be provided. Moreover, the state of the art, fast learning algorithm in the complex valued domain will also be explained and its ability to learn complex valued data will be demonstrated. Thus this workshop will enable the Research scholars, UG/PG students and other academicians to gain thorough knowledge on the implementation of these Neural Network techniques using MATLAB.

By attending this one day Workshop with Hands-on Training, a thinking process effectively emerges to build/develop and design your own idea that paves way to success. With your commitment in this Training, you can enhance your knowledge in Neural Network programming that we taught and you will learn/know how to suite for a system controlled applications.

## ABOUT THE COLLEGE

Kongu Engineering College (KEC) established in the year 1984, approved by AICTE New Delhi and affiliated to Anna University, Chennai has completed 34 years of dedicated and excellent service in the field of technical education. The college offers 14 UG programmes, 19 PG programmes and 16 Research programmes in various fields of Engineering and Applied Sciences. The college has got NBA accreditation for all UG programmes. The college has been awarded as the best Engineering College and our principal has been awarded as the best principal by ISTE. The institution is ranked high among the Engineering Institutions in India by various surveys conducted by reputed magazines/ journals/ organization. Ranked 99th position among all Engineering Institutions in India including premier institution like IITs, NITs, etc., by NIRF ranking. Also, Kongu Engineering College has been awarded as the Most Clean Campus for the Year 2017 by AICTE.

## REGISTRATION DETAILS

### *Eligibility for Participation:*

UG Students / PG Students / Diploma Students studying in various disciplines are eligible to apply. Interested Faculty members can also apply with an additional fee of Rs.240/-.

**Registration Fee: Rs. 590/- per participant (for Students)**

The course fee (Inclusive of Tax) includes Course Certificate, course kit which includes Course Materials, Software tools, lunch and refreshments.

### HOW TO APPLY

The applicants should send their applications in the specified format along with the Demand Draft (DD) drawn in favour of **“IPCELL GRANT-IN-AID A/C”** payable at **Perundurai** to reach us on or before **28<sup>th</sup> August 2019**.

## Kongu Engineering College

(Autonomous)

PERUNDURAI, ERODE-638060 TAMILNADU

### One day Workshop with Hands-on Training

On

### Neural Networks in Engineering Applications using MATLAB

31<sup>st</sup> August, 2019

### APPLICATION FORM

Name (in Block Letters): .....

Age & Sex : .....

College Name : .....

Address : .....

Phone : .....

Email id : .....

UG / PG / Diploma : .....

Discipline/Department : .....

Others (if any) : .....

\*Need Accommodation (Yes/ No):

(\*On paid basis-Extra amount will be collected)

### DD Details

DD No. : .....

DD Date : .....

Bank Name : .....

Place:

Date:

Signature of the applicant