

## DECLARATION

The above information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinators in case I am unable to attend the course.

Place :  
Date :

Signature of the Applicant

## SPONSORSHIP CERTIFICATE

Mr/Ms/Dr \_\_\_\_\_ is an employee/student of our Institute and is hereby sponsored. He/She will be permitted to attend the course for the entire duration, if selected.

Office Seal

Signature of the  
Sponsoring authority

Place:  
Date:

Application form completed in all aspects is to be sent to:

Dr. T.Meeradevi

**National Workshop on “Foundations of Deep Learning for Engineering and Science, Hands on Using Python “ (Learn by Coding)**

Dept of Electronics and Communication Engineering,  
School of Communication and Computer Sciences  
Kongu Engineering College,  
Perundurai-638060, Erode, TamilNadu.

## ABOUT THE COLLEGE

Kongu Engineering College was established in the year 1984. Approved by AICTE, New Delhi and affiliated to Anna University, Chennai. The Institution has completed 34 years of dedicated and excellent service in the field of technical education. It offers 14 UG programmes, 19 PG programmes and 16 Research programmes in Engineering, Applied Sciences and Management imparting high quality value-added education in India. The college has got NBA accreditation for UG programmes, Best Engineering College award, Best Principal award twice. The institution is ranked high among the Engineering Institutions in India by various surveys conducted by reputed magazines/journals/organization. In the survey - first of its kind - conducted by MHRD in the name NIRF (National Institution Ranking Framework), the Institution has bagged 68<sup>th</sup> rank among all Engineering institutions in India including premier institution like IITs, NITs, etc., The institution has established a Technology Business Incubator (TBI) supported by Department of Science and Technology, Government of India in its campus. TBI@KEC has won the National Award, for the Best TBI in India, presented by President of India on Technology Day in New Delhi on 11<sup>th</sup> May,2013.

## ABOUT THE DEPARTMENT

The Electronics and Communication Engineering department occupies a prominent place in the annals 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 Telecommunication System Engineering, Computer Networks, Power Electronics, Control Systems, VLSI, Bio-Medical Engineering, Digital Signal Processing, Microwave Systems, Automation, Instrumentation and Control etc. The department has excellent laboratory facilities in the areas like Networking, Microprocessors, Electronics, Communication, VLSI, Digital Signal Processing, Microwave, RF, Multimedia, Fiber Optic Communication, Computer Hardware and Maintenance and Computer Centres with latest software. The department offers four year UG programme in ECE and two year PG programmes in VLSI Design, Communication Systems and Embedded Systems. The Department has accredited by NBA outcome based Tier-I scheme.



**National Workshop  
on  
Foundations of Deep Learning for  
Engineering and Science - Hands on  
Using Python  
(Learn by Coding)**

**13.09.2019-14.09.2019**

Organizing Secretary  
**Dr.T.Meera Devi**  
Professor/ECE

Coordinators  
**Ms.S.Preethi**  
Assistant Professor/ECE  
**Mr. A.Arun Prakash**  
Assistant Professor/ECE

**Organized by  
Department of ECE  
School of Communication and Computer Sciences  
KONGU ENGINEERING COLLEGE  
Perundurai- 638060, Erode, TamilNadu.**

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## OBJECTIVE

Deep Learning has been a buzzword not only in the scientific community but also in netizens life!. Deep learning models have myriad applications: speech recognition , face recognition, stock market prediction and gene target in biology, just to name a few to show its diversity of applications in the scientific community . All major tech giants such as Google, Facebook, Twitter and so on, have been applying deep learning models for various tasks which were once considered difficult to solve on a large scale. However, deep learning models which are popular nowadays are not completely new! It was there in 1980's but they are being used extensively now, only because of the availability of computational power. In a nutshell, if you have data, deep learning models might help you in whatever the problem you are dealing with.

## Topics covered in the Workshop

1. Introduction to elements of Learning
2. Introduction to Numerical Python
  - Manipulating arrays and Vectorizing code.
3. Coding a single neuron from scratch
  - Application to House Price Prediction
4. Deep Neural Networks (DNN).
  - Application to Multiclass Image Classification
5. Convolutional Neural Networks (CNN)
  - Application to Face Recognition.
6. Vanishing gradient problem, Under-fitting and over fitting of neural networks.
7. L2 and Dropout Regularization methods.
8. Overview on Transfer Learning.

For more details on the topics : [Click Here](#) or scan the QR code given below:



## ELIGIBILITY

Faculty members working from Engineering, Colleges, Research scholars, UG/PG Students, Industry Persons and anyone interested in Deep learning field.

## BOARDING AND LODGING

Boarding and lodging will be provided to the participants in the college campus on chargeable basis.

## REGISTRATION FEE DETAILS:

Registration Fee : Rs.1180/-  
(Registration fee includes service tax, workshop kit, lunch and refreshment)

The Demand Draft for the registration fee must be drawn in favor of **“IIP Cell Grant in Aid Account”**, payable at Perundurai or Erode.

## LOCATION

The college is situated at Perundurai on the National highway (NH 47) about 80 kms from Coimbatore and 20 kms from Erode. It is well connected by road and rail.

## SCHEDULED DATES

Last Date for Receipt of Applications: 30.08.2019  
Intimation of Selection : 05.09.2019  
Confirmation by Participants : 09.09.2019

**For Online registration: [Click here](#)**

**KONGU ENGINEERING COLLEGE**

(Autonomous)

PERUNDURAI- 638060, ERODE, TAMILNADU

## National Workshop on “Foundations of Deep Learning for Engineering and Science - Hands on Using Python” (Learn by Coding)

**Date: 13.09.2019-14.09.2019**

## APPLICATION FORM

Name :

Educational Qualification

Designation

Official Address :

E-mail ID :

Mobile Number :

Need Accommodation: Yes/No

## DD Details:

DD Number :

Bank Name :

Amount :

Date :

Signature of the  
Sponsoring Authority

Signature of the  
Applicant