

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 coordinator in case I am unable to attend the course.

Place :

Date : Signature of the Applicant

SPONSORSHIP CERTIFICATE

Mr/Ms/Dr _____ is an employee of our Institute / Organization and is here by sponsored. He/She will be permitted to attend the course, if selected.

Place: Office Seal Signature of the
Sponsoring Authority

Date:

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

Dr. K.Nirmaladevi

Co-ordinator,

NBHM Sponsored Seminar On

**Perspective of Probabilistic Model Construction
and Bayesian Deep Learning**

Department of Computer Science and Engineering
Kongu Engineering College, (Autonomous) Perundurai,
Erode-638 060, Tamil Nadu.

Email ID: k_nirmal@kongu.ac.in

Phone No : 9486904557, 9500500036

ABOUT THE COLLEGE

Kongu Engineering College was established in the year 1984. Approved by AICTE, New Delhi and affiliated to Anna University, Chennai. It consists of 167 acres of land richly endowed with beautiful Greenland. The college has completed 37 years of dedicated and excellent service to the people of India and abroad in the field of Technical Education. It offers 17 UG programmes, 15 PG programmes and 15 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, NAAC accreditation with A++ grade, Best Engineering College award and Best Principal award twice. In the survey conducted by MHRD in the name NIRF (National Institution Ranking Framework) the Institution has bagged 118th rank among all Engineering institutions in India including premier institution like IITs, NITs, etc. It has an active industry institute partnership centre to interact with industries and also has a Technology Business Incubator (TBI), first of its kind in India, nurturing entrepreneurs in hi-tech areas.

ABOUT THE DEPARTMENT

Department of CSE was started in the year 1988 with B.E. Programme. With the increasing demand in Computer Science and Engineering, M.E programme was started in the year 1999. The department is recognized to offer research programme leading to Ph.D. The department aims at developing intellectually alert, scientifically progressive, globally competent and dynamic young IT professionals.

ABOUT THE LOCATION

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



NBHM SPONSORED

Seminar on



**Perspective of Probabilistic
Model Construction and
Bayesian Deep Learning**

18.10.2022 & 19.10.2022

Co-ordinator

Dr.K.Nirmaladevi

Dr.N.Krishnamoorthy

Mr.N.P.Saravanan

Organized by

Department of Computer Science and Engineering
School of Communication and Computer Sciences

KONGU ENGINEERING COLLEGE

(Autonomous)

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PREAMBLE

While deep learning has been revolutionary for machine learning, most modern deep learning models cannot represent their uncertainty nor take advantage of the well studied tools of probability theory. This has started to change following recent developments of tools and techniques combining Bayesian approaches with deep learning. The intersection of the two fields has received great interest from the community over the past few years, with the introduction of new deep learning models that take advantage of Bayesian techniques, as well as Bayesian models that incorporate deep learning elements.

This Seminar will be a platform to host the recent flourish of ideas using Bayesian approaches in Deep Learning and using deep learning tools in Bayesian modelling. The main theme will focus on applications of Bayesian deep learning within machine learning and outside of it.

PROGRAMME CONTENTS

Introduction to Bayes' Theorem
Probabilistic Machine Learning
Application of Bayes' Theorem: Bayesian Inference
Combination: Bayesian Neural Networks
Bayesian Convolutional Neural Networks using Variational Inference
Deep recognition models for Variational Inference (Amortized Inference)
Bayesian Convolutional Neural Network in PyTorch
Uncertainty estimation in a Bayesian Neural Networks
Model Pruning in a Bayesian Neural Networks
Markov Chain Monte Carlo (MCMC) with Bayesian Neural Networks
Applications of Bayesian Deep Learning
Bayesian Deep reinforcement Learning
Active Learning and Bayesian optimization for experimental design
Kernel methods in Bayesian Deep Learning

RESOURCE PERSONS

Sessions will be handled by experts from various reputed institutions, Universities, Industry and also experienced faculty members of Kongu Engineering College.

ELIGIBILITY

Faculties, Students and Research Scholars from AICTE approved Engineering colleges, Polytechnics and Arts and Science Colleges with relevant background can attend. Candidates from industries and R&D organizations may also be considered on a self-supporting basis.

BOARDING AND LODGING

Accommodation and boarding if required will be provided in the college campus on chargeable basis.

FREE REGISTRATION: Google form link:
<https://forms.gle/885hxCNZkn6E66yw8>

HOW TO APPLY

The applicants should send their applications in the specified format through their Principals / Sponsors to reach us on or before 12.10.2022. If selected they should confirm their participation in time.

SCHEDULED DATES

Last date for receipt of Applications : 12.10.2022
Intimation of Selection : 14.10.2022
Confirmation by participants : 17.10.2022

KONGU ENGINEERING COLLEGE
PERUNDURAI, ERODE- 638 060 TAMILNADU

NBHM SPONSORED – Seminar

on

**Perspective of Probabilistic Model
Construction and Bayesian Deep
Learning**

18-10-2022 & 19-10-2022

APPLICATION FORM

Name :

Age :

Sex :

Designation :

Qualification :

Organization :

Address for
Communication :

Phone No.

Office :

Mobile :

E-mail ID :

Experience (in Years)

Teaching : _____

Industry : _____

Others (Specify) : _____

Need Accommodation: Yes/NO