

## Course Contents

- ✓ Vectors
- ✓ Matrix Theory
- ✓ Advanced Matrix Theory - Spectral Decomposition, Singular Value Decomposition(SVM) and Low Rank Approximation
- ✓ Principal Component Analysis (PCA), Linear Discriminant Analysis (LDA)
- ✓ Least Square Approximation, linear and multiple Regression, Logistic Regression
- ✓ Convex sets and functions, Optimization
- ✓ Probability, distributions and Support Vector Machines (SVM)

**Who Can Apply?:** Students, Faculty members, Research Scholars from academic Institutions and Industry Persons.

**Registration Fee Details:** Rs. 300/- (Including 18% GST)

A/C Name : S.VINOTHKUMAR  
A/C No. : 1247155000095838  
Branch Name : KEC Nagar  
IFSC code : KVBL0001247  
MICR code : 638053006  
Bank Name : Karur Vysya Bank

(or)

**Google Pay:** 9003683789

Name: Vinoth Kumar



**Registration Link:**

<https://forms.gle/Q7tRini26qJfcGU29>

**Scheduled Dates**

Last date for application reception 10.10.21  
Intimation of selection 13.10.21

**Session Timings: 2 pm to 4 pm**

## About The College

Kongu Engineering College was established in the year 1984. Approved by AICTE, New Delhi, accredited by NAAC for 5 years with the grade of "A" and an autonomous Institution affiliated to Anna University, Chennai. The Institution has completed 37 years of dedicated and excellent service in the field of technical education. It offers 14 UG, 19 PG 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 NIRF (National Institution Ranking Framework) survey conducted by **MHRD, the Institution has bagged 164th 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.

## About the Course

Machine Learning (ML) is a branch of Artificial Intelligence (AI) which is becoming increasingly popular nowadays. Machine Learning finds applications in all the areas of engineering and sciences. Machine Learning tools are based on rich mathematical theories. Therefore, in this area of research where the researchers are keen to develop new algorithms of machine/deep learning, it is necessary to have in depth knowledge of all such mathematical concepts. In this course, basic mathematical concepts related to the machine/deep learning will be dealt with. In particular, topics on matrix algebra, calculus, optimization and probability theory will be discussed. Some hands-on applications of these topics will also be delivered.



## National Level 7 Days Virtual FDP on Foundations of Machine Learning (Online Mode)

21.10.2021 - 28.10.2021

**Convener**

**Dr. R.Thangarajan**

Professor & Head/IT

**Coordinators**

**Dr.R.Shanthakumari**

Associate Professor, IT

**Mr.S.VinothKumar**

Assistant Professor(SRG), IT

**Mr.K.S.Giriprasath**

Assistant Professor, IT

**Organized by**

Department of IT  
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