



K.L.N. College of Information Technology

Accredited by NBA-AICTE & Affiliated to Anna University

An ISO 9001:2008 Certified Institution

Pottapalayam, Sivagangai Dist, Tamilnadu-630612

One Week FDP

On

**“Modeling, Prediction, Optimization,
Dictionary Learning and Estimating the
Statistical Characteristics of Big Data”**

12th – 18th June 2016

REGISTRATION FORM

Name :
Designation/Department :
Institution :
Qualification :
Mobile :
E-Mail :
By cash Rs.: (or)
DD No. :
Date :
Amount :
Bank :

**(DD drawn in favour of “The PRINCIPAL,
K.L.N. College of Information Technology,
Pottapalayam” payable at Madurai)**

Declaration

This is to certify that Dr./Mr./Ms. _____
is a student/employee of our Institution/Industry and
is sponsored to attend the one week faculty
development program conducted by K.L.N.College
of Information Technology during 12th – 18th June
2016

Place :

Date :

(Signature)

Signature of applicant HOD/Head of Institution
with office seal and date

IMPORTANT DATES

Last date for receiving
Completed registration form : **19.05.2016**

Intimation of selection by E-mail : **26.05.2016**

COURSE FEE

PG Students : **Rs.1000/-**
Faculty & Research scholars : **Rs.1500/-**
Participants from Industry : **Rs.2000/-**

Registration fees include Lunch, Registration kit
and certificates.

CONTACT PERSONS

1. Mr.M.S.Manikandan

Assistant Professor / ECE

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E-mail: cherishmani04@gmail.com

2. Mr.B.Anburaj

Assistant Professor / ECE

Mobile: 9597777500

E-mail: anburaj.b@gmail.com

ADDRESS FOR COMMUNICATION

The Convener,
Department of ECE,
K.L.N. College of Information Technology
Pottapalayam
SivagangaiDist, 630 612
Website: www.klncit.edu.in
Phone: 0452-2092731,6562566

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**“Modeling, Prediction, Optimization,
Dictionary Learning and Estimating
the Statistical Characteristics of Big
Data”**

12th – 18th June 2016

Chief Patron

**Dr. J.S. Gnanasekaran,
Principal**

Convener

**Dr.P.Venkatakrishnan
Prof.& HOD/ECE**

Coordinators

**Ms.J.Kanimozhi, AP/ECE
Mr.M.S.Manikandan, AP/ECE
Mr.B.Anburaj, AP/ECE**

Organized by

**Department of Electronics &
Communication Engineering**



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ABOUT THE INSTITUTION

K.L.N. COLLEGE OF INFORMATION TECHNOLOGY is the first Engineering College on Information Technology in Madurai, started in the year 2001 by the munificent of philanthropists and well-wishers in the Sourashtra Community, which is a linguistic minority in Tamil Nadu. The Institution is approved by A.I.C.T.E., New Delhi and is affiliated to Anna University, Chennai. The Department of Computer Science Engineering, Electronics and Communication Engineering and Information Technology are accredited by AICTE-NBA. The Institution is an ISO 9001-2008 certified for its quality educational management. The college offers 5 UG Programs and 4 PG programs in Engineering

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering (ECE) was established in the year 2001 with the vision of developing the department as a Centre of Excellence in R&D, in the field of Electronics and Communication Engineering and make the students blossom into meritorious and self-disciplined engineers by hard work and M.E. - Communication and Networking programs. Highly dedicated and well qualified team of faculty members in the Department having considerable academic and research experience are striving their best to provide quality education. The department successfully completes AICTE-MODROBS project worth of **8.5 Lakhs** received from AICTE for the modernization of Digital Signal Processing Lab & also DST granted **6 Lakhs** fund to organize FDP on Big Data Analytics. The department has MOU with BSNL and associated with Professional bodies like IETE, ISTE and EDC.

OBJECTIVE

Big data plays a vital role in various fields like Engineering, Medicine, agriculture etc.

Big Data is data whose scale, diversity, and complexity require new architecture, techniques, algorithms, and analytics to manage it and extract value and hidden knowledge from it. Some of the Science and Technology challenges that researchers across the globe and as well as in India facing are related to data deluge pertaining to Astrophysics, Materials science, Earth & atmospheric observations, Energy, Fundamental science, Computational Biology, Bioinformatics & medicine, Engineering & Technology, GIS and Remote Sensing, Cognitive science and Statistical data.

TOPICS TO BE COVERED

- 1. Data Science Basics.**
Data Preparation and Processing
Basics of Matrices and Linear Algebra.
Basics of Probability and Statistics
- 2. Basic Data Models.**
Linear regression modeling and diagnostics
Multiple Linear regression Modeling
Logistic regression and Binary Classification
Decision Tree Modeling
- 3. Advanced Data Models.**
Model evolution and improvement
Matrix Decomposition Methods
- 4. Finding Structures in Data.**
Clustering methods
Network analysis and optimization
- 5. Mapreduce and Hadoop.**
Mapreduce Basics
Hadoop Ecosystem
- 6. Distributed and Parallel Computing Using R**
Integrating R and Hadoop
Application on Large Data

7. Analyzing Data in Motion

Real time Data Streams
R based Stream analysis

8. Databases & Operationalizing Big Data.

Relational and Non relational databases
Cloud I the context of Big Data

9. Big Data Case Studies (Practical Lab Sessions)

RESOURCE PERSONS

Dr.R.Rajaram, Former Dean, Thiagarajar College of Engineering.

Mr.P.Jayaram , BE., MBA.,
CEO, Probit Systems, CISCO Webex Networking, Boston , USA.

Dr.K.T.Nagalakshmi, Professor & Head, Dept of Maths, K.L.N.College of Information Technology.

Dr.S.Anbumozhi , Professor , Dept of EEE, K.L.N.College of Information Technology.

Dr.P.Venkatakrishnan, Professor & Head, Dept of ECE, K.L.N.College of Information Technology.

Dr.P.Vasuki, Professor , Dept of ECE, K.L.N.College of Information Technology.

HOW TO APPLY

The applicants should send their registration form in the specified format to reach us on or before 19.05.2016. Selected participants will be informed for conformation.