INSTRUCTIONS TO THE PARTICIPANTS

1. Faculty members, Ph.D., Scholars, PG Students are eligible to participate.
2. Travelling allowance will be paid as per government norms subject to producing travel tickets. Non A/C sleeper class train fare or equivalant is eligible for outstation participants.
3. Accomodation shall be provided for out station participants on request.
4. Candidates have to send the registration forms duly attested by the head of the institution / Organization.
5. Participants are advised to follow formal dress code throughout the program.
6. Bring college/industry ID proof with two passport size photograph for reference.

No Registration Fee.

HOW TO REGISTER

The participants have to send their registration form in the prescribed format duly attested by the Head of the institution / Organization along with photo copy of your ID card and use the following link to register through online www.klncit.edu.in
Confirmation of your participation by mail based on first come first serve basis.

Last Date of Registration : 16.06.2016 **Selection Intimation: 18.06.2016**

Chief Patrons
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Dr.K.N.K.Ganesh, Secretary & Correspondent

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K.L.N.COLLEGE OF INFORMATION TECHNOLOGY

Pottapalayam-630 612, Sivagangai District, Tamilnadu, India (12 kms from Maduari City)
Sponsored by K.L.N.Sourashtra College of Engineering Council
Approved by AICTE & Affiliated to Anna University, Chennai
Approved Research Centre for IT & ECE by Anna University, Chennai
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सत्यमेव जयते

Big Data Initiatives Division (BDI)
DEPARTMENT OF SCIENCE & TECHNOLOGY (DST)
New Delhi
Sponsored

10 DAYS TRAINING PROGRAMME ON

BIG DATA ANALYTICS

Date : 22nd June 2016 to 1st July 2016

Organized by
Department of Electronics and Communication Engineering

ABOUT THE INSTITION

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 AICTE, New Delhi and is affiliated to Anna University, Chennai. 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 self-disciplined engineers by hard work and M.E. - Communication and Net-working 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 sucessfully completes AICTE-MODROBS project worth of Rs.8.5 lakhs received from AICTE for the modernization of Digital Signal Processing Lab. The department has MOU with BSNL and associated with Professional bodies like IETE, ISTE and EDC.

ABOUT THE PROGRAMME

Big Data initiative division, Department of Science and Technology (DST), Govt. of India has selected K.L.N.College of Information Technology to conduct 10 days Training programme on Big Data Analytics.

Big data is vast, huge, diverse and highly complex, it requires completely new technology, architecture, algorithms and extracting the hidden knowledge. The analytics part poses major challenge to researches in association to scientific field like space research, drug discovery, computational biology, genetic research, bio-informatics, material science, geographical information system, space observation, statistics, cognitive learning and artificial intelligence. This Program covers both the theoretical and practical aspects of Big Data, providing the participants with hands - on learning experience from the basis of data science, basic data models to advanced data models, map reduce and hadoop to database operations in Big Data.

OBJECTIVES OF THE PROGRAMME

To expose the faculty / research scholars / students in emerging technologies in the areas of Big Data Analytics.

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 Model
Linear regression modeling and diagonistics
Multiple Linear regression Modeling
Logistic regression and Binary Classification

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

9. Big Data Case Studies (Practical Lab Sessions)

RESOURCE PERSONS

1. **Dr.R.Raja Ram,** Former Dean, Thiagarajar College of Engineering, Madurai.
2. **Dr.S.Nickolas,** Department of Computer Applicatins, National Institute of Technology, Tiruchirappalli.
3. **Dr.S.Mary Saira Bhanu,** Department of Computer Applicatins, National Institute of Technology, Tiruchirappalli.
4. **Dr.R.Sukanesh,** Department of ECE, Thiagarajar College of Engineering, Madurai.
5. **Dr.P.Ilango,** Professor & Division Leader, School of Computing Sc. & Engg., VIT University, Vellore
6. **Mr.Pethuru Raj,** Infrastructure, Architect, IBM Global Cloud Centre of Excellence, IBM India, Bangalore.
7. **Mr.P.Jeyaram,** CEO, Probit System, Cisco Webex networking, Boston, USA.
8. **Mr.P.AnandKumar,** Director, ROOT - IT Learning Centre and Research Consultancy, Trichy.
9. **Dr.Sudheesh Kumar Kattumannil,** Indian Statistical Institute, Chennai.
10. **Dr.Uma Dulkare,** University of Hyderabad.