



FACULTY DEVELOPMENT PROGRAMME (FDP) ON BUSINESS INTELLIGENCE & BIG DATA ANALYTICS

1st – 6th July 2019

Organized by

E & ICT Academy, National Institute of Technology, Warangal

at

Koneru Lakshmaiah Education Foundation,

(Deemed to be University, Off campus center, Hyderabad)

(Sponsored by Ministry of Electronics and Information Technology (MeitY), Govt. of India)



Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, Govt. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy role is to offer faculty development programme in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the FDP:

This FDP aims at "Business Intelligence & Big Data Analytics" course provides practical foundation level training that enables immediate and effective participation in Business Intelligence and Big Data Analytics and other projects. It includes Big Data and the Data Analytics lifecycle to address business challenges that leverage big data. The course provides in basic and advanced analytic methods and an introduction to big data analytics technology and tools, including MapReduce and Hadoop. The extensive labs throughout provide many opportunities for students to apply these methods and tools to real-world business challenges as a practicing Data Scientist. The course takes an "Open", or technology - neutral approach, and includes a final lab in which students address a big data analytics challenge by applying the concepts taught in the course in the context of the Data Analytics Lifecycle.

Major Course Contents:

- Introduction to BI and Big Data analytics
- R studio and R for Data Science
- Visualization and Exploratory Data analysis using R
- Statistical Methods for Decision Making
- Analytics Techniques, Optimization Techniques
- Data Mining
- Introduction to Supervised and Unsupervised learning
- Decision Trees, Random Forest, Neural Networks
- Predictive Modeling, Multiple Linear Regression for Predictive Analytics
- Linear, Logistic Regression, LDA
- Time Series Forecasting, ARMA, ARIMA models
- Machine Learning
- Handling Unstructured Data, Machine learning Algorithms
- Bias Variance trade-off
- Model Validation, Data Visualization
- Introduction to MapReduce and Hadoop

Faculty conducting this program: The program will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the program. Speakers from industries are also expected to deliver as part of the course.

Eligibility: The program is open to the faculty of Engineering Colleges, MCA, MBA Colleges and other allied disciplines in Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry, Andaman and Nicobar Islands. Industry personnel working in the concerned /allied discipline can also attend.

Organized at: The Programme will be organized at the Computer Science and Engineering department of KLH (Deemed to be University), Aziz Nagar, Hyderabad by E & ICT Academy, NIT Warangal.

The whole course will be accomplished by academicians from premier institutions, Industry experts and Research advisors

Accommodation: No TA/DA will be paid to the participants. Working Lunch, Tea & Snacks and Dinner would be provided during the training at KLH campus. Boys/Girls Hostel Non-AC accommodation will be provided.

Venue: Dept. of CSE, KLEF (Deemed to be university, off campus center), Hyderabad.

Registration Fee Particulars:

| | |
|-------------------------------|------------|
| Faculty and Research Scholars | Rs. 2500/- |
| Industry Participants | Rs. 7500/- |

SC/ST concession is only for faculty of mentioned states. Research Scholars are not eligible for SC/ST concession.

The fee is to be paid either in the form of DDs or online transfer using the following details:

| DD Details | Online Transfer Details |
|---|--|
| Demand Draft in favor of " Electronics & ICT Academy NITW " payable at any bank in Warangal | Account Name: Electronics & ICT Academy NITW Account No: 62423775910 IFSC: SBIN0020149 |

How to apply: A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft) should reach the coordinator by speed-post. It is also mandatory to send scanned application form and demand draft through e-mail to sureshbabu@klh.edu.in as selection will be intimated only through mail.

Selection Criteria:

Selection will be done based on *first-cum-first-serve* basis and the confirmed candidates will be notified immediately. Maximum number of participants will be 50 (fifty), additionally 10 participants from industry are allowed to participate. The list of selected participants will be notified through their personal e-mail ids and through our website www.klh.edu.in. In case a candidate is not selected, the demand draft will be sent back. A test will be conducted at the end of the course. Candidates will be issued satisfactory certificates on successful completion of the course along with grade. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

| | |
|--|------------|
| Last date for submission of application | 26.06.2019 |
| Selection-list intimation/display on or before | 28.06.2019 |

About NITW:

National Institute of Technology (formerly Regional Engineering College), Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institution imparting technical education of a very high standard leading to the B. Tech degrees in various branches of engineering and M. Tech. and Ph.D. programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About KLEF:

The Koneru Lakshmaiah Charities was established as a trust in the year 1980 and started K L College of Engineering in the Academic year 1980-81. The trust was converted into a Society by the name Koneru Lakshmaiah Education Foundation (KLEF) in the year 1996. The KL College of Engineering has attained autonomous status in the year 2006 and in February 2009, the KLEF Society was recognized as Deemed to be University. The UGC Graded KLEF as CATEGORY-1 University under the categorization of universities for grant of Graded Autonomy. KLEF got MHRD NIRF rank of 52 under all India Engineering category. K L deemed to be University accredited with NAAC A++ is situated in a spacious 100-acre campus on the banks of Buckingham Canal aptly named "Green Fields" and the splendid avenue of trees and gardens bear testimony to the importance of ecology and environment. The campus ambience is most befitting for scholastic pursuits. It offers 23 UG programs, 26 PG programs, 28 integrated degree programs and dual degree programs. In addition to the research program in 14 disciplines, KLU has the credit of housing world class Centers of Excellence to boost research in emerging areas. Now K L Deemed to be University is operational in Hyderabad from 2018 onwards.



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APPLICATION FORM



1. Name: _____

2. Designation: _____

3. Institution: _____

4. Email: _____

5. DD No: _____ Date: _____

Bank: _____

6. Address for Correspondence _____

7. Educational Qualifications with specialization: _____

8. Subjects taught so far: _____

9. No. of refresher courses/workshops attended: _____

10. Experience (in years)

Teaching: _____

Research: _____

Industry: _____

11. Accommodation required: **YES / NO**

12. Do you belong to SC/ST: **YES/NO**

(If yes, please specify clearly and attach a photocopy of the caste certificate)

Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and 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

Dr./Mr./Ms..... is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on *Business Intelligence & Big Data Analytics* Sponsored by **Electronics & ICT Academy** during **1st - 6th July, 2019** at **KLH, Hyderabad**.

Place:

Date:

Signature of Head of Institution

(With seal)

Address for correspondence

Dr. M Suresh Babu,
Coordinator,
FDP on Business Intelligence & Big Data Analytics
Department of Computer Science and Engineering
KLEF (Deemed to be University, Offcampus Center),
Aziz Nagar,
Hyderabad-500 075,
Telangana, India

Mail the scanned copies of filled-in and duly signed application form with DD to, sureshbabu@klh.edu.in

For more information visit:

<http://nitw.ac.in/eict/>

<http://www.klh.edu.in>

For any enquiry contact:

Mobile: 9989988912, 9959509996

Coordinators

Dr. R. B. V. SUBRAMANYAM
Dept. of CSE,
Electronics & ICT Academy
NATIONAL INSTITUTE OF TECHNOLOGY

Dr. M. SURESH BABU
Professor,
Department of CSE,
KLEF (Deemed to be University, Off campus center)