



**INDERPRASTHA ENGINEERING COLLEGE  
GHAZIABAD**

*(Shaping Engineers and Leaders for Future)*

**<Under TEQIP- III>**

**Faculty Development Program  
From 12<sup>th</sup> to 17<sup>st</sup> July 2018  
“Big Data Analytics and High Performance  
Computing for Complex Problem Solving”**



**Sponsored By :**

**Dr. A.P.J. Abdul Kalam Technical University  
Lucknow**

**Organized By:**

**Department of Information Technology  
Inderprastha Engineering College  
63 Site IV Sahibabad Industrial Area  
U.P. (201010) [ipeec.org.in](http://ipeec.org.in)**

## **CHIEF PATRON**

**Prof. V. K. Pathak**  
**Vice Chancellor**  
**A.K.T.University**

**Er.S.S.Jain**  
**Chairman,**  
**G Council, IPEC**

## **PATRON**

**Dr. B.C. Sharma**  
**Director, IPEC**

## **CONVENER**

**Dr. Pooja Tripathi**  
**Head, IT Department**

**Dr V.K.Singh**  
**Dean , Academics**

## **ORGANIZING COMMITTEE**

Secretary	:	Ms. Ragini Karwayun
Design & Technical	:	Ms. Monika Sainger Ms. Lopamudra Mohanty Mr. Pankaj Yadav
Hospitality	:	Mr. Krishan Kumar Ms. Chavvi Sharma
Hall Management & Promotion	:	Ms. Preeti Sharma Ms. Sonia Lamba
Registration	:	Ms. Abhilasha Varshney Mr. Krishan Kumar
Transportation & Accomodation:	:	Mr. Sundeep Raj Mr. Harish
Press Release	:	Ms. Bindu Rani
Photography	:	Ms. Nidhi Gupta Mr. Amit Tyagi

## **Contact Details:**

Dr. Pooja Tripathi	:	9810297723	pooja.tripathi@ipecc.org.in
Ms. Ragini Karwayun	:	9899440440	ragini.karwayun@ipecc.org.in
Ms. Abhilasha Varshney	:	9911320062	abhilasha.varshney@ipecc.org.in
Mr. Krishan Kumar	:	9719750868	Krishan.kumar@ipecc.org.in

## **ABOUT THE INSTITUTE**

Inderprastha Engineering College, Ghaziabad was established in 2000 as a self financed institution to cater to the demands of technical education in the NCR region of UP. IPEC is approved by AICTE and affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow. IPEC has a strength of about 3600 students on its rolls which is a substantial growth in 18 years to meet the need of quality technical education in U.P., and also to ensure their overall growth as responsible professionals and global citizens.

## **ABOUT THE DEPARTMENT**

Vision of the IT department is to provide ample opportunity to the young engineers for evolving their core competencies for building up their career as world class professionals with strong foundation, in-depth knowledge and versatile personality to meet the challenges of global economy.

The Mission of the department is to impart quality education so as to produce innovative and globally competent technocrats having sound knowledge in the ever changing field of Information Technology. It aims to provide suitable environment through state of art laboratories, industry tie-ups, project labs and workshops for perusing higher education and research.

## **OBJECTIVE OF THE FDP**

This FDP will help to

- ❖ Gain advanced knowledge of theoretical, methodological and practical developments in the field of high performance computing and big data analytics.
- ❖ Develop the capability to design high performance programs based on parallel and distributed applications.
- ❖ Exposure to advance methods for data analysis and processing data mining and pattern recognition

## **COURSE OUTLINE**

- ❖ **Introduction to HPC with MPI for Data Science**
- ❖ **Introduction to Multicore processing.**
- ❖ **CUDA Programming**
- ❖ **HPC Profiling and performance analysis**
- ❖ **HPC Cluster formation**
- ❖ **Data Analytics using R**
- ❖ **Introduction to Apache SPARK (Data Structure & SQL)**
- ❖ **Introduction to Dask for parallel & distributed computing**
- ❖ **Big data visualization with Zeppelin**
- ❖ **Solving Complex Industry App. of Big Data (Case Studies)**

## **GUEST SPEAKERS**

<b>Resource Person</b>	<b>Affiliation</b>
Dr Manish	Senior Programmer, Computer Services Centre, IITD
Dr. Ranjani	AIMA, Ph D. Analytics
Dr. Pooja Tripathi	Professor, IPEC, Ghaziabad
Mr. Jaidev Despande	Practice Lead, Juxt Smart Mandate
Mr. Divyanshu Bhushan	AVP, To The New
Mr. Mukul	Former President, QA Infotech
Dr. Kamal Gulati	Amity University
Mr. Himanshu Pahuja	Senior Bigdata Architect, Impetus
Mr. Pravek Saxena	CEO, Smalt and Beryl
Ms. Jigyasa Saxena	Senior Program Manager, Google

## **REGISTRATION DETAILS**

- ❖ No. of seats are limited to 30 seats.
- ❖ The Registration form is attached along with the brochure.
- ❖ Registration form filled and duly stamped & approved by Director/Head of the Institute should be submitted by 10th July, 2018
- ❖ **NO REGISTRATION FEE** for Faculty, Students, Research Scholars of the Colleges Affiliated to AKTU.



**TECHNICAL EDUCATION QUALITY  
IMPROVEMENT PROGRAM – PHASE III**  
Dr. A. P. J. Abdul Kalam Technical University, Lucknow



**REGISTRATION FORM**

**FACULTY DEVELOPMENT PROGRAMME  
ON**

**BigData Analytics and High Performance Computing for Complex Problem Solving  
from**

**12<sup>th</sup> to 17<sup>th</sup> July' 2018**

**Organized by**

**Department of Information Technology,**

**Inderprastha Engineering College,  
Ghaziabad (030)**

(To be filled in Block Letters only)

Name \_\_\_\_\_

Designation \_\_\_\_\_ Institute \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ PIN \_\_\_\_\_

Phone \_\_\_\_\_ E-Mail \_\_\_\_\_

**REGISTRATION DETAILS**

The registration of the faculties working in **institutions affiliated or associated to Dr. A. P. J. Abdul Kalam Technical University, Lucknow** is “free”. Kindly send the scanned copy of the duly filled document to the email-ids given in the brochure.

**DECLARATION**

The above information furnished is correct to the best of my knowledge.

The applicant is hereby permitted to attend the above Faculty Development Program.

Signature Faculty

Signature and seal of the Director of the Institute