

About the Institute

On 15th September 2004, a day celebrated annually as "Engineers Day", under the visionary leadership of Capt. Satish Sharma, Ex-Chairperson Raebareli Polytechnic Association, and Smt. Sonia Gandhi, Ex-Chairperson UPA, Feroze Gandhi Institute of Engineering & Technology (FGIET) was incepted. FGIET affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow, approved by AICTE, New Delhi. FGIET is a premier institute, established with a vision to develop sincere and committed technical professionals and scholars. FGIET provides value based education with a focus on excellence in academics. FGIET campus spreads over 22.5 acre with several conspicuous features offering an amiable, verdant and eco-friendly atmosphere to students to make them more meditative, voracious and focused. The Institute regularly organizes FDPs, Workshops, Seminars, and Guest Lectures to expose the faculty members and students with the recent technical trends by inviting eminent national and international personnel from academia and industrial world. Various co-curricular and extra-curricular activities are regularly conducted which ensures the overall development of the students.

About the Department

The Department of Computer Science & Engineering was established in September 2004. The department offer four year degree course as B.Tech. in Computer Science & Engineering with sanction intake of 60 students. The Department has increase the intake of 120 Student with the year 2008. The department has well-qualified and dedicated teaching faculty with various specialization and good exposure. With the passage of its evolution and growth has succeeded in creating its place of excellence not only within the college but among its counterparts in the country. The department has a comprehensive curriculum on topics related to all aspects of Computer Hardware and Software with an emphasis on practical learning and provides an outstanding research environment complemented by excellence in teaching. The course structure is up-to-date and includes courses on nascent topics to equip our students with the latest developments in Computer Science & Engineering.

About the Programme

High Performance Computing presents new research field relating to high performance parallel and distributed systems used in both academia and industry. It has been the center of new discoveries in systems such as clusters, grids, clouds, parallel and multicore computers. Over all the applications of high performance computing are based on special type of planning which includes system selections, acceptance test, bench marks and many others. The current data growth rate signifies that high-performance computing will be coming to every industry sector sooner or later.

Data science is a field of computer science which is concerned with the manipulation, processing and analysis of data to extract knowledge. This area is undergoing a revolution in which HPC is a key driver. HPC provides the power underpinning the management and analysis of big data; the increasingly large, complex and challenging data sets that are now generated across many areas of science and business. In the near future both public and private organizations in many domains will use HPC plus data science to boost strategic thinking, improve operations and innovate to create better services and products.

Objectives

- To develop expertise and extract performance of sequential and parallel programs for large scale applications on Multi-to Many core clusters with co-processors MPI, OpenMP in parallel computing.
- To discuss algorithms for parallel computing focusing various application domains.
- To make strong foundation on high performance computing of data intensive applications.

The FDP aims to cover four classroom lectures in the morning and two hour hands-on session in the afternoon.

Contents of the FDP

- The basics of parallel computing
- Parallel concepts and terminology
- Programming models
- Designing Parallel Programs
- Message-Passing Programming
- Threaded programming
- Data analytics with high performance computing
- HPC ecosystem and green HPC
- HPC and Cloud

Learning Outcomes

On completion of this FDP, participants should:

- Understand what data analytics, data science and big data are.
- Have knowledge of the common, popular, important HPC infrastructures applicable to data analytics.
- Be able to critically evaluate the analytical performance of a data analytic technique.
- Be able to identify and apply the most appropriate HPC infrastructure for a particular data analytic technique.

FDP Committee

CHIEF PATRON	Prof. Vinay Kumar Pathak Vice Chancellor APJAKTU, Lucknow
PATRON	Smt. Suneeta Chauhan Chairperson Raebareli Polytechnic Association FGIET, Raebareli
FDP CHAIR	Prof. R. P. Sharma Director FGIET, Raebareli
COORDINATOR	Dr. Lokendra Singh Umrao Assistant Professor Computer Science & Engineering Department FGIET, Raebareli
CO-COORDINATOR	Shruti Tripathi Assistant Professor Computer Science & Engineering Department FGIET, Raebareli
CONVENER	Nupa Ram Chauhan Associate Professor Computer Science & Engineering Department FGIET, Raebareli

Programme Committee

Sunil Kumar Verma, Assistant Professor, Department of CSE
Dinesh Kumar Tiwari, Assistant Professor, Department of CSE
Umesh Kumar, Assistant Professor, Department of CSE
Jitendra Mishra, Assistant Professor, Department of CSE
Divya, Assistant Professor, Department of CSE
Geetmala, Assistant Professor, Department of CSE
Swarnima Mishra, Assistant Professor, Department of CSE
Rekha Gautam, Assistant Professor, Department of CSE
Preeti Singh, Assistant Professor, Department of CSE
Ashutosh Mishra, Assistant Professor, Department of CSE
Jay Prakash Pandey, Assistant Professor, Department of CSE
Amit Singh, Assistant Professor, Department of CSE
Shradha Srivastava, Assistant Professor, Department of CSE

Resource Persons

Resource persons will be Professors from IIT's, IIIT's, NIT's and reputed professionals/ experts from Government/ Industry having rich experience of teaching, research & exposure of real-life projects in the field.



One Week

Faculty Development Programme

on

High Performance Computing , Parallel Programming and Data Science

(June 11 – June 15, 2018)

under the support of

TEQIP-III

Dr. A.P.J Abdul Kalam Technical University, Uttar Pradesh, Lucknow



Coordinator: Dr. Lokendra Singh Umrao

Organized by

Department of Computer Science & Engineering

Feroze Gandhi Institute of Engineering & Technology

(Affiliated to Dr. A.P.J Abdul Kalam Technical University, Uttar Pradesh, Lucknow)

Lucknow-Allahabad Road

Ratapur Crossing

Raebareli, U.P.-229316

Tel: 0535-2217269, Telefax: 0535-2217430

Eligibility

All the faculty members from Under Graduate /Post Graduate programmes of AICTE approved technical institutes, M.Tech. students, Research Scholars and Professionals working in industry.

Registration

The participants are requested to register their names by sending the duly filled registration form in the format attached herewith. Send the scanned copy of filled registration form to email given below on or before **June 09, 2018**.

Email: lokendra.manit@gmail.com and Copy to Email: fgietuptu@gmail.com

Registration Fee

Registration fee **INR 1000** with and without accommodation.

The above fee includes FDP kit and fooding on all working days.

Mode of Payment: Online/DD

Registration fee is to be paid by Demand Draft drawn in favor of **Director, Feroze Gandhi Institute of Engineering & Technology** payable at **Raebareli** or by on-line bank transfer.

Our Bank details are as follows:
Bank Account Holder: Feroze Gandhi Institute of Engineering & Technology
Bank Name: Allahabad Bank, Branch-Raebareli
Account Number: 50117371007
Account type: Current, IFSC: ALLA0210065

If fee is paid by online then please email the transaction ID.

Important dates

Last date for submission of application: 09.06.2018

Selection-list intimation/display before: 10.06.2018

Duration of Programme: 11th June – 15th June 2018

Certificate

Participation Certificate shall be issued to all the participants by institute on the concluding day.

Travel and Accommodation

Participants will have to make their own arrangements for their travel. Stay and dinner of participants from outside Raebareli will be arranged in campus guest house provide in campus on first come first serve basis as per institute guest house capacity.

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 lokendra.manit@gmail.com and Copy to Email: fgietuptu@gmail.com as selection will be intimated only through mail.

FORMAT OF APPLICATION

Faculty Development Programme

on

High Performance Computing, Parallel Programming and Data Science

(11th June – 15th June, 2018)

Organized by

Department of Computer Science & Engineering

Feroze Gandhi Institute of Engineering & Technology, Raebareli

under the support of

TEQIP-III

Dr. A.P.J Abdul Kalam Technical University, Uttar Pradesh, Lucknow

1. Name:
2. Date of birth: Gender(M/F):
3. Designation:
4. Department:
5. Institution:
6. Address for communication:
.....
.....
Pin: Phone No:
- Mobile:
- E-mail:
7. Highest Qualification:
8. Specialization:
9. Subjects taught so far:
10. No. of refresher courses/workshops attended:
11. Experience (Number of years):
Teaching: Industry:
12. Whether accommodation needed (Yes/No):
13. DD/NEFT No. and date:
- Bank & Branch:

Declaration

I hereby declare that the information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the programme. If selected, I shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinator sufficiently in advance, in case I am unable to attend the course.

Place:

Date:

Signature of the applicant

SPONSORSHIP CERTIFICATE

Certified that Mr./ Ms./ Dr.
..... is an employee of this institution and is hereby sponsored for the FDP on **High Performance Computing, Parallel Programming and Data Science** at **Feroze Gandhi Institute of Engineering & Technology, Raebareli** during the period of 11th June – 15th June, 2018. He/she will be permitted to attend the course, if selected.

Place:

Date:

Name & Signature of Sponsoring Authority
(seal of the institution)

Selection Criteria

Selection will be done based on **first-come-first-serve basis** and the confirmed candidates will be notified immediately. The maximum number of participants will be **40 (forty)**. Additionally 10 participants from industry are allowed to participate. The list of selected participants will be notified in the institute web site www.fgiet.ac.in and also will be sent to their personal e-mail ids. In case a candidate is not selected, the demand draft will be sent back.

Address for Correspondance

Dr. Lokendra Singh Umrao
Coordinator–FDP,
Computer Science & Engineering Department
FGIET, Raebareli, Uttar Pradesh–229316
Mail the scanned copies of filled-in and duly signed application form with DD/NEFT to
Email: lokendra.manit@gmail.com and Copy to Email: fgietuptu@gmail.com

For any enquiry contact:
Mobile: 9415772305/ 9451989484

For more information visit
URL: fgiet.ac.in

