

## AUDIENCE

Faculty members and Research Scholars  
(Pursuing PhD) of all Engineering/Sciences  
Backgrounds

Registration Fee  
NIL

Number of Participants Expected  
30

Course Duration:  
One Week (07<sup>th</sup>-11<sup>th</sup> August, 2023)

Course Mode: Offline

Venue : DTU

Registrations will be accepted on first come basis.

## The topics intended to be covered

Linux Fundamentals for HPC

HPC Fundamentals

Open-Source tools for High Performance  
Computing

High-Performance Computing for Big data  
and Quantum computing

Deep Learning & its Applications

The resource persons will be from  
CDAC (Pune), IBMRL, SAMSUNG and DTU

For further queries you may contact -

Dr. Sanjay Kumar: 9899846345

Mr. Kavinder Singh: 9045852502

Mr. Rohan Pillai: 9399279175

Email: [sttp.hpcai@gmail.com](mailto:sttp.hpcai@gmail.com)



### CHIEF PATRON

Prof. Jai Prakash Saini  
Hon'ble Vice Chancellor, DTU

### PATRON

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### CONVENER

Prof. Rahul Katarya  
CSE, DTU



### CO-CONVENER

Dr. Virender Ranga  
Assoc. Prof., IT, DTU



### CO-CONVENER

Mr. Ashish Kulvelkar  
Senior Director, CDAC Pune



### CO-CONVENER

Mr. Naveen Kumar  
Scientist E, Ministry of Electronics  
and IT (MeitY), Govt. of India.



### COORDINATOR

Dr. Sanjay Kumar | Mr. Kavinder Singh  
Asst. Prof., CSE, DTU | Asst. Prof., CSE, DTU

### CO-COORDINATOR

Ms. Trasha Gupta | Mr. Rohan Pillai  
Asst. Prof., Mathematics | Asst. Prof., EE, DTU  
& Computing, DTU

Mr. Piyush Vaish  
Knowledge Network Manager,  
Computer Center, DTU



प्रगत संगणन विकास केंद्र  
CENTRE FOR DEVELOPMENT  
OF ADVANCED COMPUTING



IEEE  
COMPUTER  
SOCIETY



Dept. of Computer Science & Engg.  
Delhi Technological University, Delhi

in Association with  
CDAC Pune

is organizing a

One Week  
Short Term Training Program  
on

Introduction to High  
Performance Computing  
(HPC) and its Application in  
Artificial Intelligence (AI)

7<sup>th</sup> - 11<sup>th</sup> August, 2023

## ABOUT THE UNIVERSITY

Delhi Technological University (DTU) is a non-affiliating, teaching and research University at Delhi to achieve excellence in science, engineering, technology, management and allied areas and matters connected there with or incidental thereto. The University enables students to face the wide-ranging changes taking place in the fields of science, technology, environment and management. This includes innovation, design, development, construction, production, managerial and entrepreneurial activities. The University lays great emphasis on assisting students in the development of national character, self-confidence, leadership and fostering an ecosystem for creativity and imagination. This university was initially established with the name of Delhi Polytechnic in the year 1941 and was renamed to Delhi College of Engineering in 1965. In 2009, Delhi Technological University was reconstituted from Delhi College of Engineering by the Government of NCT of Delhi. The University has an illustrious history spanning over 78 years.

## ABOUT CDAC

Centre for Development of Advanced Computing (C-DAC) is the premier R&D organization of the Ministry of Electronics and Information Technology (MeitY) for carrying out R&D in IT, Electronics and associated areas. Different areas of C-DAC, had originated at different times, many of which came out as a result of identification of opportunities.

The setting up of C-DAC in 1988 itself was to built Supercomputers in context of denial of import of Supercomputers by USA. Since then C-DAC has been undertaking building of multiple generations of Supercomputer starting from PARAM with 1 GF in 1988.

Almost at the same time, C-DAC started building Indian Language Computing Solutions with setting up of GIST group (Graphics and Intelligence based Script Technology); National Centre for Software Technology (NCST) set up in 1985 had also initiated work in Indian Language Computing around the same period.

Electronic Research and Development Centre of India (ER&DCI) with various constituents starting as adjunct entities of various State Electronic Corporations, had been brought under the hold of Department of Electronics and Telecommunications (now MeitY) in around 1988. They were focusing on various aspects of applied electronics, technology and applications.

With the passage of time as a result of creative ecosystem that got set up in C-DAC, more areas such as Health Informatics, etc., got created; while right from the beginning the focus of NCST was on Software Technologies; similarly C-DAC started its education & training activities in 1994 as a spin-off with the passage of time, it grew to a large efforts to meet the growing needs of Indian Industry for finishing schools.

C-DAC has today emerged as a premier R&D organization in IT&E (Information Technologies and Electronics) in the country working on strengthening national technological capabilities in the context of global developments in the field and responding to change in the market need in selected foundation areas. In that process, C-DAC represents a unique facet working in close junction with MeitY to realize nation's policy and pragmatic interventions and initiatives in Information Technology. As an institution for high-end Research and Development (R&D), C-DAC has been at the forefront of the Information Technology (IT) revolution, constantly building capacities in emerging/enabling technologies and innovating and leveraging its expertise, caliber, skill sets to develop and deploy IT products and solutions for different sectors of the economy, as per the mandate of its parent, the Ministry of Electronics and Information Technology, Ministry of Communications and Information Technology, Government of India and other stakeholders including funding agencies, collaborators, users and the market-place.

***For Registration, Click on the Link -  
<https://forms.gle/vnGhQhL3pmDCangKA>  
and the last date of registration is 3<sup>rd</sup> August, 2023***

## ABOUT CSE DEPARTMENT

The Department of Computer Science and Engineering endeavors to provide the thrill of a corporate R&D environment with a planned focus on industrially relevant projects and technology incubation. Currently, the department offers Doctorate, post-graduate & under-graduate courses in the fields of Computer Engineering, Artificial Intelligence. The department also has an active student chapter of the Computer Society of India (CSI) and Society of Software Engineering which contribute significantly to professional activities undertaken by IEEE and IET student's chapters. The B. Tech (CSE) program has an NBA accreditation. Department has developed state-of-the-art laboratories in the various fields of Computer Engineering- Computation and Programming Lab, Artificial Intelligence Lab, Linux Android Network Systems Lab, Samsung Digital Research Academy Lab etc.

## AIM OF THE EVENT

CDAC, Pune is implementing the National Supercomputing Mission (NSM), Govt. of India, steered jointly by the Department of Science and Technology (DST) and Department of Electronics and Information Technology (DeitY). NSM aims to make India one of the world leaders in Supercomputing and to enhance India's capability in solving grand challenge problems of national and global relevance.

In view of the above-mentioned mission, we are organizing a one-week short-term training Program on "Introduction to HPC and its Application in Artificial Intelligence" (STTP HPC-AI) from 7<sup>th</sup> August to 11<sup>th</sup> August 2023. The aim of this short-term Program is to develop a highly professional HPC-aware human resource pool at all levels for meeting the challenges of the development of HPC applications as well as for managing, monitoring, and running such complex HPC systems.