FDP ON HPC & AI

Six Days Faculty Development Program on "High Performance Computing & Artificial Intelligence"

Sponsored by
National Supercomputing Mission
In collaboration with

VTU, Belagavi | Walchand College of Engineering, Sangli | C-DAC, Pune

From 31st August 2026 to 05th September 2026

Theme: Innovate, Inspire & Lead - Faculty for Next Era of High-Performance Computing and Artificial Intelligence

(Affiliated to VTU, Belagavi, Karnataka 590018, Recognized by Govt. of Karnataka and Approved by AICTE, New Delhi)

Address: No.129/47/1 to 7, Kambayyanapalya, Varadanayakanahalli, Jakkanahalli Post, Bengaluru, Karnataka 562123
Phone No: +91-9448746000
Email: principal.hit@harshainstitute.edu.in |
Website: https://harshainstitute.edu.in/

ABOUT OUR COLLABORATORS

Center for Development of Advanced Computing is implementing the National Super-Computing Mission (NSM), a Capacity Building Initiative of Ministry of Electronics and Information Technology, Government of India. Walchand College of Engineering (WCE), Sangli - Established in 1947 with lavish campus having state- of-the-art laboratories. WCE is one of the Nodal Center for conducting NSM activities. WCE is a State Government aided oldest and autonomous Premier Engineering Institute in Maharastra, India.

ABOUT FDP

The Program will introduce several parallel programming models, including Open MP for shared memory machines, Message Passing Interface (MPI) for distributed memory machines, and Computer Unified Device Architecture (CUDA) and a parallel computing platform developed by NVIDIA for exploring GPU, AI Tools & Technologies. It will also include hands-on sessions on these programming models.

ABOUT HARSHA INSTITUTE OF TECHNOLOGY

Harsha Institutions is a progressive educational institution dedicated to shaping skilled professionals, confident leaders, and future-ready graduates through quality education and practical learning. Harsha Institutions provides an engaging learning environment that blends theoretical knowledge with real world application. The institution follows an industry-aligned curriculum designed to enhance career opportunities, strengthen practical skills and equip students with the confidence, expertise, and professional mindset needed to succeed in today's competitive global landscape.

OBJECTIVES OF THE COURSE

- **To introduce the fundamentals of computing including parallel architectures, programming models and commonly used parallel programming constructs/libraries/languages.**
- **To deliver hands-on sessions to provide experience in applying HPC tools to both CPU and GPU platforms.**
- **To educate participants on HPC & AI Technologies to inculcate in their research work.**

BENEFITS

- Understanding Multicore and Manycore Architectures
- Shared Memory Parallelism with Open MP
- CUDA Programming
- Distributed Memory Parallelism with MPI
- Parallel Computing Patterns, reduction, Matrix Multiplication, Convolution, etc.
- Profiling Sequential and Parallel Codes
- Performance measures in Parallel Computing, HPC
- AI Fundamentals, Tools & Technologies
- HPC in Artificial Intelligence, RAG

RESOURCE PERSONS

Resource Persons from Institutions of National Importance (IIT, IIIT, NIT), C-DAC, Industries and other Premier Institutions across the Country will deliver the sessions at the FDP.

WHO CAN APPLY?

The FDP is intended for Faculty Members and Research Scholars of affiliated Institutions/Colleges of VTU Belagavi. No registration fee, Registration will be accepted on a first come first serve basis, and participants are encouraged to register early due to limited seats.

BENEFITS

- **Interaction with eminent speakers from Industry and Academia.**
- **Free access to HPC & AI resources during the FDP.**
- **Free registration for participants.**
- **Lunch & Accomodation will be provided during FDP.**

CHIEF PATRONS

- **Dr. S SHIVAKUMAR**
  Honorable Chairman, Harsha Institutions, Bengaluru
- **Dr. VIDYASHANKAR S**
  Honorable Vice Chancellor, VTU Belagavi

PATRONS

- **Dr. SHASHIDHAR T M**
  Principal, Harsha Institute of Technology, Bengaluru
- **Dr. PRASAD RAMPURE**
  Registrar, VTU Belagavi
- **Dr. UJWAL U J**
  Registrar (Evaluation), VTU Belagavi

PATRONS FROM COLLABORATORS

- **Shri AMOL CHAVAN,**
  Member-Administrative Council, WCE, Sangli
- **Prof. S S RATHOD**
  Director, WCE, Sangli
- **Mr. ASHISH KUVELKAR,**
  Senior Consultant, CDAC-Pune
- **Prof. D B KULKARNI,**
  Head, NSM Nodal Center, WCE, Sangli
- **Dr. U B CHAVAN,**
  Nodal Center Coordinator, WCE, Sangli
- **Ms. A S PAWAR,**
  Nodal Center Coordinator, WCE, Sangli.

ORGANIZING CHAIRS

Dr. AJITH PADYANA
Program Director, VTU-VRIF-TCOE Center,
VTU Belagavi.

Dr. PRADEEP N R
Dean (R&D), Professor & Head, Dept. of CSE(AI&ML),
Harsha Institute of Technology, Bengaluru.

ADVISORY COMMITTEE

- **Smt. GIRIJA SHIVAKUMAR**
  Vice Chairperson, Harsha Institutions, Bengaluru
- **Mr. HARSHA SHIVAKUMAR**
  Secretary, Harsha Institutions, Bengaluru
- **Mr. YASHAS SHIVAKUMAR**
  Co - Secretary, Harsha Institutions, Bengaluru

ORGANIZING COMMITTEE

- **Dr. Udaya Kumar N L,**
  Dean Academics, Professor & Head, Dept. of CSE
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- **Dr. Arpitha T,**
  Head, Dept. of CSE(Cyber Security)
- **Dr. B S Krishna**,
  Professor & Head, Dept. of Basic Sciences & Humanities
- **Mrs. Nandhini T,** Head, Dept. of CSE(DS)
- **Mr. Venugopal D,** Head, Dept. of ISE
- **Mr. Mallesh B Y**, Dean Students' Welfare
- **Mr. Somashekar D**, Asst. Professor, Dept. of ISE
- **Mr. Mohammed Afreed Ulla,** Asst. Professor, Dept. of CSE
- **Ms. Chandrakala,** Asst. Professor, Dept. of CSE(AI&ML)
- **Ms. Smitha S,** Asst. Professor, Dept. of Mathematics
- **Ms. Thanushree S**, Asst. Professor, Dept. of CSE
- **Mrs. Pooja T S,** Asst. Professor, Dept. of CSE(DS)
- **Ms. Rakshitha S,** Asst. Professor, Dept. of CSE(CY)
- **Ms. Anju T V,** Asst. Professor, Dept. of Humanities

NO OBJECTION CERTIFICATE

The Faculty Prof./Dr./Mr./Ms.....from our institution will be permitted to attend the 6-Days' FDP Sponsored by National Supercomputing Mission (GOI) on "HPC & AI" to be held from 31st Aug to 5th Sep 2026 at Harsha Institute of Technology Bengaluru.

Date: **Signature**
Place: **(Head of the Institute Seal)**

DECLARATION BY THE CANDIDATE

I agree to maintain the discipline for the entire duration of 06-Days' Faculty Development Program scheduled from 31/08/2026 to 05/09/2026 and I shall participate in the course for the entire duration, if selected.

Date : **Signature of the Candidate**
Place:

[Please use the above content on your Institution's letterhead. During registration, upload the filled scanned copies using the QR code, while the hardcopies should be submitted on the day of the FDP]

Kindly Note:
The number of participants is limited to 50,
No registration fee

Registration Link: https://forms.gle/pNt2A83bFp8x4fmD9

LAST DATE FOR REGISTRATION: 27/08/2026
The Registration shall include the declaration by the candidate and NOC from the Institute through the above form.

FOR MORE DETAILS CONTACT:
Dr. PRADEEP N R
Mob:+91-9900740476
Email: hod-aiml.hit@harshainstitute.edu.in
Dr. ARPITHA T
Mob:+91-8073382677
Email:
hod-cy.hit@harshainstitute.edu.in
Ms. CHANDRAKALA S
Mob:+91-7899582441
Email: chandrakalamc.hit@harshainstitute.edu.in

Scan QR code

Registration through QR Code Attached here