

REGISTRATION FORM

**NATIONAL WORKSHOP
ON
HIGH PERFORMANCE COMPUTING AND APPLICATIONS
(HPCA 2019)
(August 12-17, 2019)**

Name of participant _____

Faculty/ Student/from Industry (tick one): _____

Dept/Branch: _____

Designation/Year: _____

Institute/Company _____

Mailing Address: _____

Mobile No. _____

Email: _____

Payment Details (T.no, Bank and Date) _____

I agree to abide by the rules and the regulations governing the Workshop.

Place: _____

Date: _____ *Signature of the participant*

Mr./Ms./Dr./ _____ is an employee/
student of our Institution and is permitted to attend the programme.

Signature of the Head of (applicant's) Institution and Seal



Address for Communication

Program Coordinators

National Workshop on HPCA 2019

Dept. of Information Technology,
Western Campus, NIT Karnataka, Surathkal,
Srinivasnagar PO,
Mangalore- 575025.

E-mail: ITdept_workshops@nitk.edu.in

Contact Ph: 0824 - 247 3557 (Off)
0824 - 247 3554 (Off)



NATIONAL WORKSHOP ON



HIGH PERFORMANCE COMPUTING AND APPLICATIONS (HPCA 2019)

(August 12-17, 2019)



Workshop Coordinators

Dr. Sowmya Kamath S.

Dept. of Information Technology, NIT Karnataka

Dr. Geetha V.

Dept. of Information Technology, NIT Karnataka

*Organized as part of
NITK Diamond Jubilee Celebrations (2019-20) by*

**Department of Information Technology
Western Campus, NIT Karnataka,
Surathkal, Srinivasnagar Post,
Mangalore - 575 025**

<http://infotech.nitk.ac.in/>

Department of Information Technology
NIT Karnataka, Surathkal, P.O. Srinivasnagar
Mangalore-575 025

About NITK

NITK Surathkal is a premier institution engaged in imparting quality technological education and a broad range of research, development and consultancy activities. NITK has carved a niche for itself among the best technical institutes in India and is consistently ranked among the top 10 technological institutes.

NITK is located on the scenic shores of the Arabian Sea, about 20KM north of Mangalore and is well connected by Air, Rail and Road. The nearest domestic/international airport is in Bajpe (about 10KM from Mangalore) and the nearest railway station is Surathkal (3KM).

Department of Information Technology

Established in year 2000, the Department of Information Technology has grown into a center for excellence, innovation and high-quality research, with dedicated faculty & staff, highly motivated students, state-of-the-art facilities and an innovative teaching-learning environment. The department was accredited by National Board of Accreditation (NBA) for 5 years w.e.f. July 1st, 2014 and extended for 3 years in June 2019. IT students have consistently achieved 100% placements year after year and have demonstrated a high level of success at pursuing post-graduate and doctoral studies at leading universities world-wide.

About the Program

High Performance Computing (HPC) is a domain that encompasses the use of super computers and parallel processing for solving complex computational problems efficiently, reliably and quickly. HPC systems have the ability to deliver sustained performance through the concurrent use of computing resources. Applications typically require parallelizable task identification and parallelization level, i.e., task level or data level parallelism. HPC has applications in diverse fields like healthcare/personalized medicine, modeling and simulation, Security, Fintech and Engineering, Predictive Analytics, Affective Computing, Computer networks, Internet of Things etc.

Objective of the Program

The objective of this workshop is to introduce participants to the fundamental concepts and research trends in the area of HPC and to train them in their application in various fields as per their research interests and domains.

Coverage of the Workshop

- Fundamental concepts of HPC
- Architecture Evolution for HPC
- Shared Memory Parallelism with OpenMP
- Distributed Memory Parallelism with MPI
- GPGPU Computing with CUDA
- Practical sessions on OpenMP, MPI & CUDA
- HPC Applications in various domains
- HPC applications in Industry by Industry experts.
- Emerging research trends in HPC and related areas.

Eligibility and Selection

The workshop is open to interested UG/PG Students, Research Scholars, Faculty Members of all Engineering colleges in India

- Total participants will be limited to 50.
- Limited accommodation available, on prior request. The expenses have to borne by participants.

Registration

Interested participants are requested to send the signed registration form in the format given (scanned), duly forwarded by the competent authority with Registration Fee paid details **on or before 31st July 2019 by Email.**

Registration Fees: Rs. 3540/- (3000 + 18% GST)

Account Name : Director, NITK

Account Number : 10175365060

Bank : State Bank of India

IFSC Code : SBIN0002273

MICR Code : 575002013

Branch Code : 2273

Remarks : HPCA 2019, IT Dept

Important Dates

Last date for receipt of applications:

July 31, 2019

Intimation of selection by email:

August 1, 2019