

## 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](mailto: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**  
[www.nitk.ac.in](http://www.nitk.ac.in)

**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, further extended for 1 year 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**  
**Please add remarks as : HPCA 2019, IT Dept**

**Important Dates**

Last date for receipt of applications:

**July 31, 2019**

Intimation of selection by email:

**August 1, 2019**