ABOUT THE COURSE

This workshop aims to make understand the concepts, architectures, programming paradigms, and applications of high performance computing and supercomputing to the research scholars and PG students.

The workshop aims to teach the **concepts, frameworks, applications, and implementations of high performance computing and supercomputing** with their practical aspects, covering

- **Parallel Processing Concepts**
- **Modern Multicore Processors and GPU**
- **Basics of Open MP and MPI**
- **HPC Profiling and Performance**
- **CUDA Programming**
- **Cloud & Edge Computing**
- **Quantum Computing**
- **Design Issues in High Performance Computing**
- **HPC & AI: Industry Trends and Perspectives**

WHO CAN ATTEND

This workshop is open to research scholars in Computer Science / Information Technology/ ECE or related fields / postgraduate students (MCA or M.Sc. Computer Science / IT / related fields or M.Tech. / M.E. in CSE / IT/ ECE / related fields) from all Institutes, Colleges, and Universities.

Limited seats are available. Only selected candidates will be informed by email.

IMPORTANT DATES

Last date of Registration: 07.05.2023

Intimation of Selection: 09.05.2023

ABOUT NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI, INDIA and CENTER FOR SUPERCOMPUTING FACILITY

The **National Institute of Technology Tiruchirappalli** (formerly known as Regional Engineering College, Trichy) is situated in the heart of Tamil Nadu on the banks of river Kaveri. Since its inception in 1964, it has established itself as a premier institute imparting quality technical education and engaged in research and development in different fields.

The **PARAM PORUL**, a state-of the art Supercomputer at the **Centre for Supercomputing Facility**, **NIT Tiruchirappalli** is dedicated to the nation under **National Supercomputing Mission (NSM) - a joint initiative of Ministry of Electronics and Information Technology (MeitY) and Department of Science and Technology (DST)**.

REGISTRATION

Interested Candidates are requested to fill and submit the following form:

https://forms.gle/B2NAFDq7PEe1rMKQ6

No registration fees for the participants.

TA will be given as per government norms. Accommodation and Food will be provided free of cost.

For any clarifications, please contact:

Mr. D. Selvam, Mobile: 9790686936

Mr. V.M. Firos, Mobile: 9846021944

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KARYASHALA (High-end Workshop) on

HIGH PERFORMANCE COMPUTING: A HANDS-ON APPROACH

22 May 2023 – 28 May 2023

Organized by

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING & DEPARTMENT OF COMPUTER APPLICATIONS NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI, INDIA

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