

# Bootcamp on using Paramshakti supercomputer

3<sup>rd</sup> December 2021

Organized by the Centre for Computational and Data Sciences, IIT Kharagpur

This is a 2.5 hours Bootcamp is aimed at training students, postdocs, and faculty of IIT Kharagpur on using the Paramshakti (PS) supercomputing facility. It will introduce you to the supercomputer configuration, software environment, and job submission, and wherever possible, a demonstration of these will be shown. This Bootcamp is going to happen once every two weeks until further notice.

**The number of participants is limited to 100.**

## Workshop Links:

[Online registration form](#)

**(No registration fee)**

**Contact email:** [hksahu@iitkgp.ac.in](mailto:hksahu@iitkgp.ac.in)

## Prerequisites:

Preliminary knowledge in using basic Linux commands; any text editor like nano, vim, etc

## Important Dates:

Submission open to participants: 03-Dec-2021, 1:00 PM

Last date for registration: 03-Dec-2021, 3:00 PM

Date of notification and sharing of online link: 03-Dec-2021, 3.30 PM

Event Timing: 03-Dec-2021, 4.30PM

\*Registration will be closed earlier if capacity is reached. Early registration is recommended

## Speakers:

- Mr. Hemanta Kumar Sahu
- Mr. Subhadip Sahoo
- Mr. Arun Chakraborty

## Schedule:

Session-I 16:30-17:20

- Welcome
- Introduction to PS supercomputer
- Supporting staff and charging policy
- How to connect to PS
- Software environment and modules
- Q&A

Break 17.20 - 17.30

Session-II 17:30-19:00

- Job scheduler - SLURM
- A brief introduction to serial and parallel (MPI, OpenMP, and GPU) computing
- Useful slurm commands (and demonstration)
- Job submission scripts and submitting jobs (and demonstration)
- Job monitoring
- Q&A