

Online Workshop on High Performance Computing in Engineering

October 21-22, 2021

Organized by the [IIT Kharagpur](#) and [Ansys](#)

Under the aegis of [National Supercomputing Mission](#)

Webpage: www.ccds.iitkgp.ac.in/hpcfem.html

About the Workshop:

Use of High Performance Computing (HPC) in engineering computations allows simulations to be bigger, more complex and more accurate than ever. The workshop aims to cover different aspects relevant for using HPC to solve large-scale problems in several areas as structural analysis, computational fluid dynamics, electronics and optics. Basics of different computational techniques as well as advanced case studies for use of HPC will be presented.

Workshop Links:

[Online Registration Form](#)

Webpage:

www.ccds.iitkgp.ac.in/hpcfem.html

Contact email: ccdssoffi@ccds.iitkgp.ac.in

Important Dates:

Last date for registration: *October 15, 2021, 5:00PM*

(Registration may close earlier, if capacity is reached. Early registration is recommended.)

Notification and sharing of link: *October 17, 2021*

Who should attend:

Scientists, Industry Professionals, Faculty Members, Postdoctoral Fellows, Doctoral, UG/PG Students

Tentative Program:

Opening Address, Director, IIT Kharagpur

Introduction to HPC

Overview of FEM

HPC in Scientific Computing

Overview of CFD

Overview of Optical Simulation

Debunking HPC Myths & Best Practices to Adopt

Case studies - Structural application

Case studies - Electronics application

Case studies - Fluid dynamics application

Case studies - Optical simulation

Speakers:

[Ashish Kuvelkar, C-DAC](#)

[Avinash Padmappa, Ansys](#)

[Bhanu Gupta, Ansys](#)

[Kapil Debnath, IIT Kharagpur](#)

[Nijas Kunju, Ansys](#)

[Rabius Sunny, IIT Kharagpur](#)

[Rajaram Lakkaraju, IIT Kharagpur](#)

[Santhosh M, Ansys](#)

[Wim Slagter, Ansys](#)

Organizing Committee:

[Abhimanyu Singh, Ansys](#)

[Aroop Tyagi, Ansys](#)

[Ashish Kuvelkar, CDAC](#)

[Rajaram Lakkaraju, IIT Kharagpur](#)

[Somnath Roy, IIT Kharagpur](#)