

Shree H. V. P. M.'s
College of Engineering and Technology, Amravati
workshop
on
High Performance Computing (Param Shavak)
Scheduled from 8th Nov 2017 to 11th Nov 2017.

REPORT

Workshop on High Performance Computing (**Param Shavak**) has been organized by H. V. P. M.'s C.O.E.T , Amravati supported by C-DAC, from 08 Nov 2017 to 11Nov 2017. More than 40 Faculty members from different branches were present to attend the workshop along with hands-on session. Mr. Ashish Ranjan, Mr. Sweta Das, Mr. Sandeep Agrawal were Resource persons from CDAC, Pune.

Day 1: Wednesday, 08 Nov 2017

The workshop has been inaugurated by the hands of our respected principal Dr. A. B. Marathe. Mr. Sandeep Agrawal *has* started the session by introducing the HPC. As per Mr. Agrawal High Performance Computing (HPC) is the use of Parallel Processing for running advanced application programs efficiently, reliably and quickly.

Ms. Sweta Das conducted the session on the topic “Shared memory parallelism with OpenMP”. She explained the basics of OpenMp. Also hands-on session on OpenMP has been conducted. It was learning experience for all the participants throughout the day.



Day 2: Thursday, 09 Nov 2017

The Expert discussed Parallel Approaches, Distributed memory parallelism with MPI, MPI collective communication, Linux basics. Hands-on MPI (Linux and C) has been covered.



Day 3: Friday, 10 Nov 2017

The expert spoke on Introduction to PARAM Shavak, supercomputing and HPC Software Development tools . Mr. Ashish Ranjan focused on GPGPU computing and CUDA, Overview of Parallel File System and Interconnection Network optimization of serial codes. Hands-on session with CUDA has been given.

Day 4: Saturday, 11 Nov 2017

Last day engaged with profiling of serial codes, Hands on session with hybrid programming MPI, OpenMP, CUDA.

Dr. Rajat Moona (Director from IIT, Bhilai), Mr. C. Kajwadkar (Senior vice president, CCIL, Mumbai) , Mr. Narayanan were present on last day. There was interaction session on HPC among participants, trainer, faculties, principal, Dr. Rajat Moona, , Mr. C. Kajwadkar, Mr. Narayanan. Valedictory function was honored by Dr. Rajat Moona after interactive session.

