



Workshop on High Performance Computing

Organized by

High Performance Computing Technologies, Centre for Development of Advanced Computing, Pune (India)

Venue: Tezpur University **Duration:** 3 days. August 9-11, 2016

August 9, 2016

Time (Hrs)	Lecture/Hands-on Session	
10:00 – 11:00	Inaugural Function	
11:00- 12:00	Overview of High Performance Computing (HPC)	
12:00 – 13:00	Insight into HPC	
Lunch Break - 1 hr.		
14:00 – 15:30	Shared Memory Computing with OpenMP	
15:30 – 17:00	Hands on session with OpenMP	

August 10, 2016

Time (Hrs)	Lecture/Hands-on Session	
09:30 – 10:00	Introduction to PARAM TEZ HPC facility: System overview	
10:00 – 10:30	Design of Parallel Algorithms	
10:30 – 11:30	Distributed Memory Computing with MPI	
11:30 – 13:00	Hands on Session with MPI	
Lunch Break - 1 hr.		
14:00- 14:30	Demonstration: Porting & Execution of Scientific HPC Application	
14:30 – 15:00	Cluster Resource Manager and Job Scheduler (TORQUE)	
15:00 – 17: 00	HPC System Administration (PARAM TEZ HPC facility)	





August 11, 2016

Time (Hrs)	Lecture/Hands-on Session	
09:30 – 11:30	Overview of GPGPU Computing and CUDA	
11:30 – 12:15	Cluster Building Tools	
12:15 – 13:00	Introduction to PARAM Shavak	
Lunch Break - 1 hr.		
14:00- 14:30	Profiling of Codes	
14:30 – 16:30	Overview of architecture and computing with Xeon Phi (MIC)	