



One Week National Workshop on High Performance Computing & Applications (HPCA 2019)

(August 12-17, 2019)

VENUE: IT Seminar Hall, 5th Floor, IT building, Western Campus, NITK Surathkal

PROGRAMME SCHEDULE

Date	Time	Details
DAY 1 12/8/2019 Monday	8.30 - 9 AM	Registration
	9 - 9.30 AM	Inauguration
	9.30 - 11:00 AM	Session 1: Fundamentals and Architecture of HPC Speaker: Dr. Geetha V, Dept of IT, NITK
	11 - 11:15AM	Tea Break
	11.30 - 1 PM	Session 2: Shared Memory Parallelism with OpenMP Speaker: Dr. Neelima B, Dept of IT, NITK
	1 - 2 PM	Lunch Break
	2 - 5 PM	Hands-on sessions (Project Lab, 5th floor)
DAY 2 13/8/2019 Tuesday	9.30 - 11:15 AM	Session 3: Distributed Memory Parallelism with MPI Speaker: Ms. Thanmayee, Dept of IT, NITK
	11:15-11:30 AM	Tea Break
	11.30 - 1 PM	Session 4: Design Aspects of Parallel Programming Speaker: Dr. Geetha V, Dept of IT, NITK
	1 - 2 PM	Lunch Break
	2 - 5 PM	Hands-on sessions(Project Lab, 5th floor)
DAY 3 14/8/2019 Wednesday	9.30 - 11:15 AM	Session 5: NVIDIA Certified Fundamentals of CUDA C/C++ programming Speaker: Dr. Basavaraj Talwar, Dept of CSE, NITK
	11:15-11:30 AM	Tea Break
	11.30 - 1 PM	Session 6: NVIDIA Certified CUDA C/C++ programming Speaker: Dr. Basavaraj Talwar, Dept of CSE, NITK
	1 - 2 PM	Lunch Break
	2 - 5 PM	Hands-on sessions (Project Lab, 5th floor)
DAY 4 15/8/2019 Thursday	9.30 – 1 PM	Independence Day Celebrations, Tree Planting
	1 - 2 PM	Lunch Break
	2 - 5 PM	Hands-on sessions (Project Lab, 5th floor)
DAY 5 16/8/2019 Friday	9.30 - 11:15 AM	Session 7: HPC Applications in Precision Health Speaker: Dr. Sowmya Kamath S, Dept of IT, NITK
	11:15-11:30 AM	Tea Break
	11.30 - 1 PM	Session 8: HPC Applications in Weather Modeling Speaker: Dr. Vathsala H, CDAC Bangalore
	1 - 2 PM	Lunch Break
	2 – 3.15PM	Session 9: HPC in Computational Flow Modeling Speaker: Dr. M Arun, Dept of Mechanical Engg, NITK
	3:15 - 3:30 PM	Tea Break
	3.30 - 5 PM	Session 10: Applications of HPC in Big Data Analytics Speaker: Mr. Tushaar Gangavarapu, Amazon Inc.

DAY 6 17/8/2019 Saturday		MoU signing and HPC Lab Inauguration
	9.30 - 11 AM	Session 11: Challenges of ExaScale Speaker: Mr. Prashanth Tamraparni, HP Enterprise, Bangalore
	11 - 11:30 AM	<i>High Tea</i>
	11.30 -12.30 PM	Address by Mr. Naresh Shah, Vice-president (R&D), HPE Bangalore and Mr. Mahesha Nanjundaiah, Director of Engineering, HPE Bangalore.
	12.30 - 1.30 PM	<i>Lunch Break</i>
	1.30 – 2.30 PM	Session 12: Next Generation Interconnect (GenZ) and Fabric Attached Memory (FAM) Speaker: Mr. Shridhar Prakash Joshi, HP Enterprise, Bangalore
	2.30 – 3.30 PM	Session 13: Containers in HPC Speaker: Mr. Kailash Madhav, HP Enterprise, Bangalore
	3:30 - 3:45 PM	<i>Tea break</i>
	3.45 - 4.45 PM	Session 14: Role of High Performance Computing in Drug Discovery Speaker: Mr. Vivek Sharma, HP Enterprise, Bangalore
	4.45 - 5.45 PM	Session 15: Convergence of HPC and AI Speaker: Mr. Nilesh Negi, HP Enterprise, Bangalore
	5.45 PM	<i>Valedictory function</i>

Workshop Coordinators

Dr. Sowmya Kamath S
Dept. of Information Technology
NITK Surathkal

Dr. Geetha V
Dept. of Information Technology
NITK Surathkal