



CDAC-PUNE



GOA UNIVERSITY
GOA BUSINESS SCHOOL

16th to 18th
March
2023

9:30 AM - 5:00 PM

NATIONAL WORKSHOP ON HIGH PERFORMANCE COMPUTING AND DOMAIN SPECIFIC TOOLS

No. of Seats : 50

Last date to apply : 10th March 2023

Program Schedule Link:
shorturl.at/rzDZ3

Registration Link:
<https://forms.gle/R7cNe5mHPGbaeWUA7>

Workshop Coordinator :
Shri. Hanumant Redkar
Asst Professor (CST), GBS

Shri. Jarret Fernandes
Asst Professor (CST), GBS

Workshop Convenor :
Mr. Ramrao S. Wagh
Associate Professor, CST, Goa Business School

 dcst@unigoa.ac.in

Venue : MCA Lab-II C-Block,
Goa University

Forty seats are reserved for Research Scholars/Faculty members of Goa University and affiliated colleges. Ten Seats are reserved for researchers from Outside Goa.



Workshop on High Performance Computing (HPC)

(16th – 18th March 2023)

Organized by

**Goa University
and
Centre for Development of
Advanced Computing, Pune, India**

Venue: Goa University (C-Block MCA Lab-II)

Prerequisites: Putty or MobaXterm for Windows users

16th March 2023

D A Y 1	Time (Hrs.)	Sessions
	90:00 – 09:15	Reporting of participants to the venue
09:30 – 10:00	Lecture: Inauguration and Welcome Address	
10:00 – 10:15	Lecture: Overview of Workshop	
10:15 – 10:45	Lecture: Overview of HPC	
10:45 – 11:15	Lecture: Param Shavak Architecture & SLURM workload manager	
11:15 – 11:30	Tea Break	
11:30 – 13:00	Lecture: Shared Memory Parallelism with OpenMP	
🍴 Lunch Break - 1 hour		
14:00 – 15:50	Lab Session: Shared Memory Parallelism with OpenMP	
15:50 – 16:00	Tea Break	
16:00 – 17:00	Lecture: MPI distributed memory	



17th March 2023

D A Y 2	Time (Hrs.)	Lecture/ Lab Session
	10:00 – 11:00	Lab Session: MPI distributed memory
	11:00 – 11:15	Tea Break
	11:15 – 13:00	Lab Session: MPI distributed memory (Contd.)
	🍴 Lunch Break - 1 hour	
	14:00 – 15:00	Lecture: GPU architecture and CUDA programming model in C++
	15:00 – 15:50	Lab Session: CUDA programming
	15:50 – 16:00	Tea Break
	16:00 – 17:00	Q & A – Parallel Thinking

18th March 2023

D A Y 3	Time (Hrs.)	Lecture/ Lab Session
	10:00 – 11:00	Lecture: Introduction to ANN
	11:00 – 11:15	Tea Break
	11:30 – 13:00	Demonstration: Jupyter hub and DL environment setup
	🍴 Lunch Break - 1 hour	
	14:00 – 17:00	Session from IIT Goa