Report on National Workshop on High-Performance Computing held at Goa University (Year 2022-23)

Title of the Event	National Workshop on High-Performance Computing (HPC) and Domain Specific Tools
Date and Time	16th March 2023 to 18th March 2023
Venue	MCA Office Block, Computer Science and Technology, Goa Business School, Goa University
School/Directorate	Computer Science and Technology, Goa Business School, Goa University
Collaborating Agency	C-DAC, Pune and IIT Goa
Participants	Students and Faculty members of colleges from Goa and schools of Goa University and from various institutes from Goa. (BITS Pilani Vasco, Directorate of Higher Education, Goa Engineering College Farmagudi, Govt college Quepem. Govt College Sanquelim, St. Xaviers college Asagao, and various disciplines of Goa University) - Total 51 participants
Co-ordinating Faculty (participated)	Hanumant Harichandra Redkar, Jarret Stevan Fernandes and Swapnil Fadte Ramrao Wagh (Convenor)
Students participated	About 20 students participated from Goa Business School and School of Physical and Applied Sciences. Photos: https://drive.google.com/drive/folders/1044VsCmRszVCIz3E1Es8RQLzUwaMNLIT?usp=share_link https://drive.google.com/file/d/1DK-XDXt3ysEBKqlubecB9gLuqSyUgRYc/view?usp=share_link
The objective/description of the activity	The workshop was jointly organized by the Discipline of computer science & technology, Goa Business School (GBS) Goa University, and Center for Development of Advanced Computing (C-DAC) Pune. The three-day workshop held from 16th to 18th March 2023. Inauguration of the workshop was done on the 16th morning at 9.30 am. The chief guest for the inauguration was hon. Vice-chancellor of Goa university Prof. Haliral B. Menon, Guest of honor Prof V.V. Kaamt (IIT Goa and former Dean of GBS), Prof. Jyoti D. Pawar (Dean, GBS), Mr. Ramrao Wagh (Program director, Discipline of Computer Science & Technology GBS and Convenor for the workshop) and

	resource person from C-DAC Dr. Vamshi Krishna and Shashank Sharma. The entire workshop was a combination of theory and Hands-on sessions. Day 1 topics were Introduction to HPC Hardware, Organisation of Param Shavak hardware, and introduction to OpenMP. Day 2 topics were Distributed processing, GPU architecture, and CUDA programming. Day 3-morning session was engaged by the resourced person from IIT Goa, Dr. Shitala Prasad. He has covered topics on Computer Vision and Artificial Neural networks. The afternoon session was on CPU profiling and the Hands-on programming session of Param Shavak machines. The valedictory function was held on Day 3. The chief guest for the function was Prof. Sharad Sinha (National Supercomputing Mission Nodal officer Goa and Associate Professor IIT Goa). Dr. Jyoti Pawar presented the mementos to the chief guest and to the resource persons. Some of the participants provided feedback on the workshop during the valedictory. The report of the workshop presented by Swapnil Fadte and the Vote of thanks proposed by Ramrao Wagh. This was followed by a certificate distribution photo session.
Benefit/Key outcome of the event	The major benefits of this workshop were: - Exposure to HPC facilities available in India - Gained hands-on experience of HPC facility - Gained knowledge of effective utilization of the High-Performance Computing facility available at Goa University - Gained insights of Computer Vision and Artificial Neural Networks and how HPC can be used for Deep learning activities.

Signature:

Name: Hanumant. H. Redkar

Designation: Assistant Professor of CST, GBS, Goa University.

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.
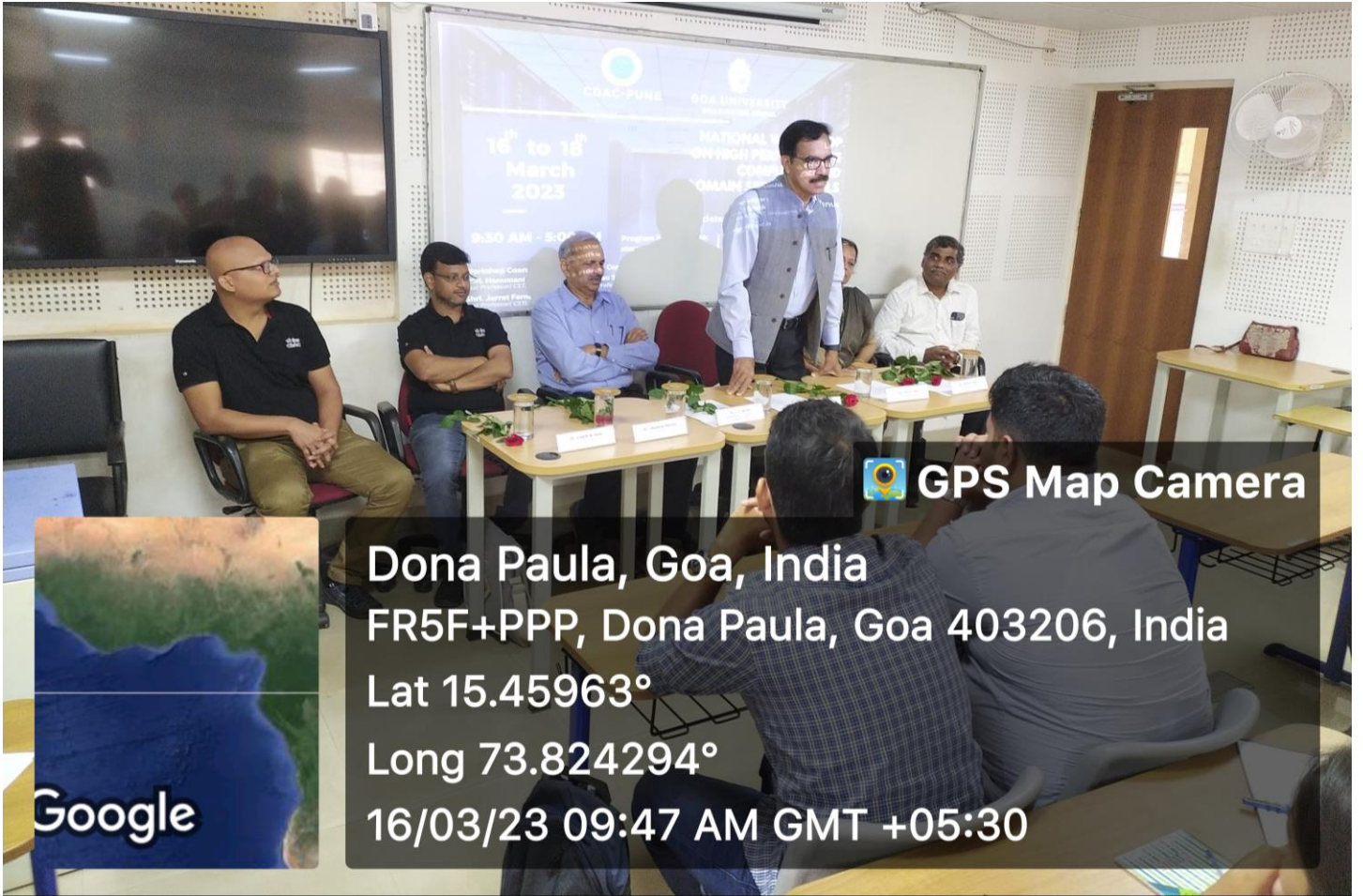
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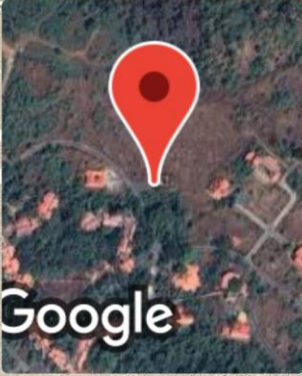Long 73.833498°
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