



इलेक्ट्रॉनिक्स एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY

Advanced Certificate Course in HPC (720 Hours)

MOET Certified

High Performance Computing (HPC) plays an important role in both scientific advancement and economic competitiveness of a nation - making production of scientific and industrial solutions faster, less expensive, and of higher quality. HPC is a key component in many applications including designing of vehicles, aeroplanes, discovery of drugs, discovery and extraction of new energy sources like oil and natural gas, weather forecasting and many more. The supercomputing systems and facilities of C-DAC are used to solve computationally challenging problems in several areas of practical significance. C-DAC Bengaluru, under the aegis of Ministry of Electronics & Information Technology (MeitY), Govt. of India has established a Centre for HPC Upskilling and Knowledge-sharing (C-HUK) to enable the candidates belonging to SC-ST and Women categories with the knowledge and proficiency in the areas of HPC, AI, Embedded and Cyber Security as part of the National Supercomputing Mission (NSM). The Centre is committed to create the capabilities through 6-months Advance Certificate Course(ACC) in HPC and 5-days Faculty Development Programmes (FDPs) for candidates belonging to SC, ST, and Women category from various universities and institutions across the country. The ACC and FDP shall be conducted in Bengaluru and North East in offline mode.

The objective of the course is to help graduates enhance and upgrade their knowledge and abilities as per the industry requirement. The course is offered in two tracks as mentioned below:

• HPC - AI:

OS, Scripting (Perl/Shell), HPC and its Architecture tools (Profiler, Debugger, Monitoring), Analytics &, Statistics using Python, HPC and Parallel Programming, OpenMP, MPI libraries, CUDA, OpenCL, OpenACC, HPC tools (Profiler, Debugger, Monitoring, Computer networks, Cloud Computing.

• HPC - CS:

OS, Scripting (Perl/Shell), HPC and its Architecture, Cryptographic fundamental, Security Operations Centre- SOC for HPC, VAPT, Ethical Hacking, cyber forensic, Computer networks, Cloud Computing.

Salient Features of ACC:

- No registration or training fee is charged
- A monthly stipend of **₹10,000/-** be provided to all the candidates
- Extensive hands-on training with visit to C-DAC's PARAM Supercomputing Facility
- Training by industry experts and corporate faculty members

Eligibility:

- Graduate (B.E / B.Tech / B.Sc / BCA), Post Graduate candidates (MCA / M.Sc) degree in IT / Computer Science / Electronics / Telecommunications / Electrical from various universities / colleges / institutes across the country belonging to Scheduled Caste and Scheduled Tribe(Any Gender) and Women(Any Community) category.
- Candidates must have secured 60% marks in the qualifying degree with 5% relaxation for SC, ST candidates.
- Preference will be given to the candidates who are below 25 years of age with a relaxation of 5 years for SC, ST candidates.
- A monthly stipend of Rs. 10,000/- will be paid to all candidates subject the condition that the candidates are not availing any other stipend at the same time.

Important Dates of ACC in Bangalore & North-East

- Last date of receipt of application: January 31, 2025
- Confirmation & Intimation of Screening: February 3, 2025
- Online Exam: February 10, 2025
- Final Selection Intimation: February 12, 2025
- Physical Document Verification: February 28, 2025
- Course Commencement of ACC: March 03, 2025
- Venue: C-DAC Bangalore & CINE

Link to Apply

https://c-huk.cdacb.in/cbp_register.php