

**PG-DHPCAP:** OPEN MP, MPI, C/C++,  
FORTRAN, GoLang, Java, Python,  
CUDA, DevOps, Cloud, OS



## Post Graduate Diploma in High Performance Computing Application Programming (PG-DHPCAP)

The objective of the PG-DHPCAP course is to equip participants with the knowledge and skills needed to develop efficient and scalable applications for high-performance computing environments.

### Course Modules

- Programming Concepts
- Linux shell scripting, Perl, and PHP
- Computer Architecture, Interconnects and Co-processor
- Cloud Computing & Deployment Strategies
- Analytics & Statistics using Python
- Parallel Programming and Numerical Methods
- Introduction to High-Performance Computational Programming
- Introduction to CUDA Programming, OpenACC and SYCL
- Introduction to AI and OpenVino
- Aptitude & Effective Communication
- Project

### Course Highlights

- Well established courses with excellent placement records.
- 24-week full-time courses with 900 hours' theory + lab + project.
- 6-8 hours per day theory + lab sessions on 6 days a week in most centres.
- Continuous lab and internal assessments during the course.
- Centralised course-end theory exams across all centres.
- Courses designed and developed in consultation with the domain experts in C-DAC, academia and ICT industry.
- Expert faculty from C-DAC and ICT industry with widespread domain knowledge.
- Tutorials, hands-on and projects relevant to the standards of the ICT industry.
- Special training on aptitude, effective communication and interview skills.



Scan for more details

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CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING



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