

Course Modules:

PG-DAC • Operating system Concepts • OOPS with C++ programming • Algorithm and Data Structures
 • Software Application Development Tools & Techniques • Advanced Web Programming • JavaScript Framework
 • Database Technologies • Core Java • Web based Java • Microsoft .Net Technologies • Application Security & Testing • Upcoming Technology • Aptitude and Effective Communication • Project & Seminar.

PG-DITISS • Fundamentals of Computer Networks • Concepts of Operating System and Administration
 • Auditing, Law, Security Standards and Best Practices • PKI, Cyber Forensics • Network Defense and Countermeasures • IT Infrastructure Management • Java Programming with Crypto API • Security Concepts
 • Aptitude and Effective Communication • Project & Seminar.

PG-DESD • Programming Concepts • Microcontrollers and Interfacing • Embedded Operating Systems • Real Time Operating System • Internet of Things (IoT) and Mobile Programming • Embedded Hardware Design and Development • Effective Communication • Aptitude and General English • Project and Seminar

PG-DVLSI • Advanced Digital Design • System Architectures • Programming Fundamentals • VHDL - HDL Simulation and Synthesis • Verilog HDL - CMOS VLSI and Aspect of ASIC Design • System Verilog - Linux Shell Scripting and Perl • Verification using UVM • Effective Communication • Aptitude and General English • Project & Seminar.

PG-DBDA • Statistical Analysis with R • Programming with Python • Fundamentals of Linux Programming
 • Java with Scala • Cloud Computing & HPC Applications • Data Collection & DBMS • Big Data Technologies
 • Data Visualization – Analysis & Reporting • Advanced Analytics • Practical Machine Learning • Aptitude and General English • Effective Communication • Project & Seminar.

C-DAC Centres

C-DAC Bangalore: Knowledge Park, Opp. HAL Aeroengine Division, Byappanahalli, Bangalore - 560038, Tel: +91-80-66116400 /01 /02 /03, Fax: +91-80-25247724. **C-DAC Chennai:** "TIDEL Park", 8th Floor, 'D' Block (North & South), No.4, Rajiv Gandhi Salai, Taramani, Chennai - 600113, Tel: +91-44-22542226/27/28, Fax: 044-22542294.

C-DAC Hyderabad: Nalanda Building, #1 Shivabagh, Ameerpet, Hyderabad - 500016, Tel.: +91-40-23737127/28, Fax: 040-23743382. **C-DAC Kolkata:** Plot - E-2/1, Block-GP, Sector-V, Salt Lake Electronics Complex, Kolkata - 700 091, West Bengal, Phone: +91-33-2357-9846/5989, Fax: +91-33-2357-5141. **C-DAC Mohali:** A-34, Industrial Area, Phase VIII, S.A.S Nagar, Mohali, Chandigarh - 160059, Tel: +91-172-223-7052/55, Fax: +91-172-2237050-51.

C-DAC Mumbai: Gulmohar Cross Road No. 9 Juhu, Mumbai - 400049, Tel: +91-22-2620-1606/1574/1488, Fax: +91-22-26232195/ 26210139 / Raintree Marg, Near Bharati Vidyapeeth, Opp. Kharghar Railway Station Sector7, CBD Belapur, Navi Mumbai - 400614, Tel: +91-22-27565303, Fax: +91-22-2756-0004. **C-DAC Noida:** B-30, Sector-62, Institutional Area, Noida - 201307, Tel: +91-120-3063371-73, Fax: +91-120-3063374. **C-DAC Pune:** ACTS, C-DAC Innovation Park, S. No. 34/B/1, Panchvati, Pashan, Pune-411008, 020-25503134/107 **C-DAC Thiruvananthapuram:** Software Training And Development Centre C-DAC, Techno park Campus, Kariyavattom P O Thiruvananthapuram, Kerala - 695581, Tel: 0471-2700401.

C-DAC Affiliated Training centers are in the following cities:

Bhubaneswar, Indore, Jaipur, Karad, Mumbai, Nagpur, Nashik, New Delhi, Patna, Pune, Solapur.

प्रगत संगणन विकास केंद्र

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

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the desire
to opt for
Victory
decides the
Winner



A post graduate diploma from C-DAC is more than just an educational qualification; it is a window to limitless possibilities wherein careers are melded on the anvil of knowledge and honed by the hammer of experience.

About C-DAC

Center for Development of Advanced Computing (C-DAC) is a Scientific Society under the Ministry of Electronics and Information technology (MeitY), Government of India. Since its inception in the year 1988, C-DAC has pioneered the development of High Performance Computing (HPC) and brought out the celebrated 'PARAM' Series of Supercomputers.

C-DAC has a rich resource of high quality intellectual resource in the form of an expert team with specialized knowledge of various facets of advanced computing. In line with these R&D strengths, C-DAC offers Post Graduate Diploma Courses in the areas of Network Security, Embedded Systems, VLSI Design, System Software Development, Advanced Computing etc.

Post Graduate Diploma Courses



Post Graduate Diploma in Advanced Computing (PG-DAC)



Post Graduate Diploma in Mobile Computing (PG-DMC)



Post Graduate Diploma in System Software Development (PG-DSSD)



Post Graduate Diploma in IT Infrastructure, Systems & Security (PG-DITISS)



Post Graduate Diploma in Big Data Analytics (PG-DBDA)



Post Graduate Diploma in Embedded Systems Design (PG-DESDesD)



Post Graduate Diploma in VLSI Design (PG-DVLSI)



Post Graduate Diploma in Internet of Things (PG-DIoT)



Post Graduate Diploma in Biomedical Instrumentation & Health Informatics (PG-DBIHI)



Post Graduate Diploma in Geoinformatics (PG-DGI)



Post Graduate Diploma in HPC System Administration (PG-DHPCSA)

Course Highlights

- 24 week full time courses with 900 hours' theory, lab and project.
- 8 hours per day theory and lab sessions for 6 days a week.
- Continuous lab and internal assessments during the course.
- Free course material provided for most of the modules.
- Courses designed and developed in consultation with the domain experts in C-DAC, academia and ICT industry.
- Syllabus in line with latest trends of the ICT industry.
- Centralised course-end theory exams.
- 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.
- Access to well equip computer labs with internet.
- Holistic development of professional through training on aptitude, general English, effective communication and interview skills.
- Placement assistance through National Common Campus Placement Programme with enthusiastic participation from top ICT companies.

Placement Initiative

The National Common Campus Placement programme is organized at regional level at five locations namely Bengaluru, Hyderabad, Mumbai, Noida and Pune. The selection process is governed by the performance of the candidate during the course as well as recruitment policies of visiting companies.

How to Apply

Upon the release of the notification for C-CAT the eligible candidates may apply through the online application form available on www.cdac.in, acts.cdac.in

Selection Procedure

Eligible candidates will have to undergo a 'C-DAC's Common Admission Test' – C-CAT, that is common for all the 10 PG Diploma courses. Selection will be based on performance in the C-CAT, the preferences of course/s and the centre for admission opted by the applicants. There are 2 batches (commencing in the months of February and August) per year.

Common Eligibility Criteria for all the PG Diploma Courses of C-DAC

- **Common Eligibility-** Graduate in Engineering or equivalent (e.g. BE/BTech/4-year BSc Engg/AMIE/ DoEACC B Level, etc.) in Electronics/ Computer Science/ IT or related areas or Post Graduate in Engineering Sciences (e.g. MSc in Computer Science, IT, Electronics, etc.)
In addition to the common eligibility criteria given above, candidates with the course-specific qualifications mentioned
- **Post-Graduate Diploma in Advanced Computing (PG-DAC)-** Graduate in any discipline of Engineering or equivalent, or MCA, MCM, or Post Graduate in Physics/ Computational Sciences/ Mathematics or allied areas, or Post Graduate in Management with graduation in Science/ IT/ Computer Applications
- **Post-Graduate Diploma in Mobile Computing (PG-DMC)-** Post Graduate in Mathematics or allied areas, or MCA
- **Post-Graduate Diploma in VLSI Design (PG-DVLSI)-** Refer Common Eligibility
- **Post Graduate Diploma in Embedded System Design (PG-DESDesD)-** Refer Common Eligibility
- **Post-Graduate Diploma in Geoinformatics (PG-DGI)-** Post Graduate in Applied Sciences/ Geography/ Geology/ Physics/ Computational Sciences/ Mathematics or allied areas
- **Post-Graduate Diploma in IT Infrastructure, Systems and Security (PG-DITISS)-** Post Graduate in Mathematics or allied areas, or MCA
- **Post-Graduate Diploma in Biomedical Instrumentation and Health Informatics (PG-DBIHI)-** Biomedical/ Electrical/ Instrumentation Engineering
- **Post Graduate Diploma in System Software Development (PG-DSSD)-** Post Graduate in Mathematics or allied areas, or MCA
- **Post Graduate Diploma in Big Data Analytics (PG-DBDA)-** Post Graduate in Mathematics/Physics/ Statistics/MBA Systems, or MCA
- **Post Graduate Diploma in Internet of Things (PG-DIoT)-** Refer Common Eligibility
- **Post Graduate Diploma in HPC System Administration (PG – DHPCSA) –** Post Graduate in Mathematics or allied areas, or MCA

Course Fee

The fee for all PG Diploma courses (except PG-DBDA) is INR 90,000/- + Goods and Service Tax (GST) as applicable at the time of admissions. Fees for PG Diploma in Big Data Analytics (PG-DBDA) is INR 1,15,000/- + Goods and Service Tax (GST) as applicable at the time of admissions.

Pattern of Online Test

C-DAC Common Admission Test (C-CAT) will be conducted online in the form of Multiple Choice Questions as follows:

Section A: English, Reasoning and Quantitative Aptitude

Section B: Programming in C, Data Structures, Data Communications and Networking, OOPs Concepts and Operating Systems

Section C: Computer Architecture, Digital Electronics and Microprocessors

Each section shall be of one hour duration, having 50 questions of 3 marks each (maximum 150 marks). Depending upon the choice(s) of the course(s) made by the candidate he/she will have to either appear in just one online test (Section A) or in two online test (Section A and Section B) or in all three online test (Section A, B and C).

Candidates who qualify in C-DAC's Common Admission Test (C-CAT) will be considered for admission to various PG Diploma courses on the basis of their ranks and preferences. There is no age restriction for admission to C-DAC's PG Diploma courses.