प्रगत संगणन विकास केंद्र
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

PG DIPLOMA ADMISSION BOOKLET

September 2023 Batch

Process of Admission to
Post Graduate Diploma Courses of C-DAC

1. **PG Diploma in Advanced Computing (PG-DAC)**

2. **PG Diploma in Big Data Analytics (PG-DBDA)**

3. **PG Diploma in Embedded Systems Design (PG-DESD)**

4. **PG Diploma in IT Infrastructure, Systems & Security (PG-DITISS)**

5. **PG Diploma in Artificial Intelligence (PG-DAI)**

6. **PG Diploma in Internet of Things (PG-DIoT)**

7. **PG Diploma in VLSI Design (PG-DVLSI)**

8. **PG Diploma in Mobile Computing (PG-DMC)**

9. **PG Diploma in Advanced Secure Software Development (PG-DASSD)**

10. **PG Diploma in Geoinformatics (PG-DGi)**

11. **PG Diploma in Robotics & Allied Technologies (PG-DRAT)**

12. **PG Diploma in HPC System Administration (PG-DHPCSA)**

13. **PG Diploma in FinTech & Blockchain Development (PG-DFBD)**

14. **PG Diploma in Cyber Security & Forensics (PG-DCSF)**

CONTENTS

1. Introduction

Set up in 1988, Centre for Development of Advanced Computing (C-DAC) is a scientific society of the Ministry of Electronics & Information Technology, Government of India, carrying out Research and Development (R&D) in IT, electronics and associated areas. Different thematic areas of C-DAC's research include high performance computing, grid and cloud computing, multilingual computing, professional electronics, software technologies, cyber security, health informatics, ubiquitous computing, and education & training.

As an institution for high-end R&D, C-DAC has been at the forefront of the IT revolution in the country, constantly building capacities in emerging technologies, and innovating and leveraging its expertise, calibre and skill sets to develop and deploy IT products and solutions for diverse sectors. It has resulted in the emergence of a high-quality intellectual resource base at C-DAC in the form of expert teams with specialised knowledge of various facets of advanced computing.

With such a rich resource base at its command, C-DAC set up the Advanced Computing Training School (ACTS) in 1993 to meet the ever-increasing skilled manpower requirements of the Information Communication Technologies (ICT) industry as well as supplement its intellectual resource base for cutting-edge research and development. Over the years C-DAC has designed and delivered various postgraduate and undergraduate degree and diploma programmes. In addition, C-DAC imparts ICT training to state and national governments and agencies, strategic sectors, corporate and industries, foreign countries and international students, based on specific requirements.

Presently C-DAC is offering Post Graduate Diploma courses through its centres located in Bengaluru, Chennai, Guwahati, Hyderabad, Kochi, Kolkata, Mumbai, Navi Mumbai, New Delhi, Noida, Patna, Pune, Silchar and Thiruvananthapuram. PG Diploma courses are also offered by C-DAC's Authorised Training Centres in Bhubaneswar, Indore, Jaipur, Karad, Mumbai, Nagpur, Nashik, New Delhi, Patna and Pune. Each year, thousands of students are trained at these centres, enhancing their knowledge-base and equipping them with the latest methodologies in advanced computing so as to make their mark in the ICT industry. So far more than 3 lakh students have passed out from C-DAC. Many of them are successful employees of multi-national and premier Indian ICT companies today, and many more have become booming entrepreneurs.

C-DAC has made strong presence globally by providing visibility and brand name for India through establishing state-of-the-art IT Training Centres and projects in many developing countries like Ghana, Uzbekistan, Tajikistan, Myanmar, Tanzania, Belarus, Armenia, Lesotho, Seychelles, Syria, Grenada, Dominican Republic, Vietnam, Turkmenistan, Kyrgyzstan, Cambodia, Kazakhstan, Saudi Arabia, Ecuador, Peru, Palestine, Bhutan, Costa Rica, Panama, Commonwealth of Dominica, Egypt, Morocco, Guyana, Papua New Guinea, Vanuatu, Fiji, Nauru, Niue, Samoa, Cook Islands, Namibia, Sao Tome & Principe, Jordan, Argentina & Solomon Islands, in close association with Ministry of External Affairs and Ministry of Electronics & IT, Government of India. C-DAC has also conducted specialised training for students from more than 100 countries.

> ✓ **C-DAC has been awarded as the *'Most Popular Training Institute in India'* at the Electronics For You Awards.**
> ✓ **C-DAC received '*Manthan 2019 Award*' for outstanding contribution in the Skill Ecosystem - Training Category by the Telecom Sector Skill Council.**

2. List of C-DAC's PG Diploma Courses, Fees and Eligibility Criteria

C-DAC's Post Graduate Diploma courses are full-time courses of 900 hours (24 weeks). The list of PG Diploma courses being offered in September 2023 along with their eligibility criteria and fees is given in Table 1. Details of these courses are given in Section 17 of this Admission Booklet.

Mode of Delivery of PG Diploma Courses in the September 2023 Batch
• **PG-DAC, PG-DBDA and PG-DAI will be delivered in FULLY ONLINE <u>OR</u> FULLY PHYSICAL mode depending on the centre offering these courses. The mode of conduct of these courses at various training centres of C-DAC is mentioned in Table 4.** • **PG-DESD, PG-DITISS, PG-DMC, PG-DIoT, PG-DVLSI, PG-DASSD and PG-DHPCSA will be delivered in fully PHYSICAL mode at all the training centres offering these courses.** • **PG-DGi, PG-DRAT, PG-DFBD and PG-DCSF will be delivered in fully ONLINE mode at all the training centres offering these courses.**

For online courses, students are required to have laptops/PCs with high-speed uninterrupted internet connection, webcam and microphone to effectively participate in the course from their homes or personal places. It is not advisable to join the online classes from mobile phones.

Common Eligibility Criteria for all the PG Diploma Courses of C-DAC
• Graduate in Engineering or Technology (10+2+4 or 10+3+3 years) in IT / Computer Science / Electronics / Telecommunications / Electrical / Instrumentation. *OR* • MSc/MS (10+2+3+2 years) in Computer Science, IT, Electronics.

In addition to the common eligibility criteria given above, candidates with the course-specific qualifications mentioned in Table 1 are ALSO ELIGIBLE for the particular courses. Minimum percentage of marks required in the qualifying examination is also stated in Table 1. The minimum percentage of marks will be considered as per the norms of the university from where the candidate has graduated.

Table 1: C-DAC's PG Diploma courses and their eligibility criteria.

CATEGORY I (Section A in C-CAT)				
COURSE NAME	**MODE OF DELIVERY** (Refer Table 4)	**ELIGIBILITY**	**MIN. %**	**FEES**
Post Graduate Diploma in Geoinformatics (PG-DGi)	**Fully Online**	• Common eligibility criteria, *OR* • 4-year Degree in Geosciences / Petroleum / Mining / Civil / Planning / Architecture / Forestry / Agriculture, or related fields, *OR* • Post Graduate Degree in Geography / Geology / Natural & Applied Sciences / Mathematics, or allied areas	50 %	**Rs 76,500 + GST**

CATEGORY II (Sections A+B in C-CAT)				
Post Graduate Diploma in Advanced Computing (PG-DAC)	**Fully Online** **_Or_** **Fully Physical**	• Common eligibility criteria, *OR* • Graduate in any discipline of Engineering, *OR* • MCA, MCM, *OR* • Post Graduate Degree in Physics / Mathematics / Statistics, *OR* • Post Graduate Degree in Management with graduation in IT / Computer Science / Computer Applications	50 %	**Rs 76,500 + GST for online mode** **Rs 90,000 + GST for physical mode**
Post Graduate Diploma in Big Data Analytics (PG-DBDA)	**Fully Online** **_Or_** **Fully Physical**	• Common eligibility criteria, *OR* • Graduate in any discipline of Engineering, *OR* • MCA, MCM, *OR* • Post Graduate Degree in Physics / Mathematics / Statistics, *OR* • Post Graduate Degree in Management with graduation in IT / Computer Science / Computer Applications	55 %	**Rs 97,750 + GST for online mode** **Rs 1,15,000 + GST for physical mode**
Post Graduate Diploma in Artificial Intelligence (PG-DAI)	**Fully Online** **_Or_** **Fully Physical**	• Common eligibility criteria, *OR* • Graduate in any discipline of Engineering, *OR* • MCA, MCM, *OR* • Post Graduate Degree in Physics / Mathematics / Statistics	60 %	**Rs 127,500 + GST for online mode** **Rs 1,50,000 + GST for physical mode**
Post Graduate Diploma in Mobile Computing (PG-DMC)	**Fully Physical**	• Common eligibility criteria, *OR* • Post Graduate Degree in Mathematics / Statistics, *OR* • MCA	50 %	**Rs 90,000 + GST**
Post Graduate Diploma in IT Infrastructure, Systems & Security (PG-DITISS)	**Fully Physical**	• Common eligibility criteria, *OR* • Post Graduate Degree in Mathematics / Statistics, *OR* • MCA	55 %	**Rs 90,000 + GST**
Post Graduate Diploma in Internet of Things (PG-DIoT)	**Fully Physical**	• Common eligibility criteria, *OR* • MCA	55 %	**Rs 90,000 + GST**
Post Graduate Diploma in Advanced Secure Software Development (PG-DASSD)	**Fully Physical**	• Common eligibility criteria, *OR* • MCA	55 %	**Rs 90,000 + GST**
Post Graduate Diploma in HPC System Administration (PG-DHPCSA)	**Fully Physical**	• Common eligibility criteria, *OR* • Post Graduate Degree in Mathematics or allied areas, *OR* • MCA	55 %	**Rs 90,000 + GST**

Post Graduate Diploma in FinTech & Blockchain Development (PG-DFBD)	Fully Online	● Common eligibility criteria, *OR* ● Graduate in any discipline of Engineering, *OR* MCA / MCM, *OR* ● Post Graduate Degree in Physics / Mathematics / Statistics	60 %	**Rs 1,06,250 + GST**
Post Graduate Diploma in Cyber Security & Forensics (PG-DCSF)	Fully Online	● Common eligibility criteria, *OR* ● Graduate in any discipline of Engineering, *OR* MCA / MCM, *OR* ● Post Graduate Degree in Physics / Mathematics / Statistics	60 %	**Rs 76,500 + GST**
Post Graduate Diploma in Robotics & Allied Technologies (PG-DRAT)	Fully Online	● Common eligibility criteria, *OR* ● Graduate in Mechatronics / Mechanical Engineering	55 %	**Rs 76,500 + GST**
CATEGORY III (Sections A+B+C in C-CAT)				
Post Graduate Diploma in Embedded Systems Design (PG-DESD)	Fully Physical	● Common eligibility criteria	55 %	**Rs 90,000 + GST**
Post Graduate Diploma in VLSI Design (PG-DVLSI)	Fully Physical	● Common eligibility criteria	55 %	**Rs 90,000 + GST**

For the online courses, laptop/PC configuration, and hardware, software and network specifications required are given in Section 18 of this Admission Booklet.

There is no age restriction for admission to C-DAC's PG Diploma courses. Candidates who have appeared for the final examination of their qualifying degree in 2023 will also be considered for admission to the above courses. By qualifying in C-DAC's admission tests of July 2023, such university result-awaiting candidates can apply for provisional admission in September 2023 batch, subject to the condition that:

(a) All parts of their qualifying degree examination shall be completed by the date of joining the course, and

(b) Proof of having passed the qualifying degree with at least the required minimum marks shall be submitted at C-DAC by 31 December 2023.

Important Notes:

(i) **Candidates should ensure that they meet the eligibility criteria of the courses for which they are applying.** It shall be incumbent upon candidates to prove they meet the prescribed eligibility criteria at the time of taking admission at allocated centre. Issuance of Admit Card and/or C-CAT rank does not automatically entitle a candidate to admission. **In case a candidate is found to be non-eligible during any stage of the admission process or course delivery, his/her admission will be cancelled with immediate effect.**

(ii) For any admission-related correspondence with C-DAC, candidates must email to the addresses mentioned in this Admission Booklet from their registered email, and must mention their name and C-CAT Form No. without which C-DAC may not be able to respond to these candidates.

3. Highlights of C-DAC's PG Diploma Courses

- 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.
- Extensive placement orientation and region-wise common campus placements.

Centralised Course-End Examinations (CCEE)

The Centralized Course End Examinations (CCEE) including re-examination, if any, will be conducted physically at C-DAC, its training centres, and/or identified test centres in selected cities. **While the students undergoing courses in physical mode shall appear for exam at the same training centre/city, the students undergoing courses in online mode shall appear at the exam city of their choice from the city list to be provided by C-DAC before commencement of CCEE.** However, at its own discretion, C-DAC may allocate these students to any exam centre/city, with prior intimation, which shall be binding on the students. The CCEE will be held in the month of January/February 2024.

4. Common Campus Placement Programme (CCPP)

Close to 30 years, C-DAC has shaped the careers of over 3 lakh IT professionals in software development and other specialised advanced computing domains. The Placement Cells of C-DAC organise Common Campus Placement Programmes (CCPP) for its PG Diploma students. **For the September 2023 batch, C-DAC's CCPP will be conducted region-wise at Bengaluru, Hyderabad, Mumbai, Noida, Patna, and Pune. Training centres from other cities will be attached to one of these placement regions, so that students from all centres across India will get fair chance in placements** (see Table 2 for details). All C-DAC training centres actively coordinate and organise campus interviews for all their PG Diploma students. **More than 400 companies participated in C-DAC's campus placements in 2021 and 2022, wherein 80-90% placement is achieved across India.**

Important Notes:

(i) Placements of the September 2023 batch will be held in physical or online mode, depending on the participating company's preference and C-DAC's decision.

(ii) For campus placements, students will need to be stationed in the city where their CCPP Region's campus placements will be held.

Table 2: Region-wise distribution of cities in C-DAC's Common Campus Placements (CCPP) of September 2023 batch

CCPP Region	Cities of the Training Centres attached in CCPP
Bengaluru	Bengaluru, Chennai
Hyderabad	Hyderabad
Mumbai*	Kochi, Kolkata, Mumbai, Navi Mumbai, Thiruvananthapuram
Noida	Noida, New Delhi (C-DAC)
Patna	Guwahati, Patna, Silchar
Pune*	Bhubaneswar, Indore, Jaipur, Karad, Nagpur, New Delhi (Bytes), Pune

* MET-IIT Nashik students will join either Mumbai or Pune CCPP region as later decided by C-DAC.

C-DAC has always been the ICT recruiters' first choice when it comes to recruiting ready-to-deploy manpower for their turnkey projects. Top ICT companies (some are listed in Table 3) have expressed faith in C-DAC's trained resources by regularly recruiting them through CCPP. C-DAC has also recruited many of the PG Diploma students for its R&D projects.

Table 3: Selected list of companies that visited C-DAC for campus placements.

✓ 3i Infotech	✓ Dassault Systems	✓ JP Morgan Chase	✓ Qualcomm
✓ ABB	✓ Datamatics	✓ Kotak Mahindra	✓ RBL Bank
✓ Accelya	✓ Deutsche Bank	✓ KPIT Cummins	✓ Rockwell Collins
✓ Allstate	✓ Dell EMC	✓ KPMG	✓ Samsung
✓ Amdocs	✓ Deloitte	✓ L&T Infotech	✓ SanDisk
✓ AppDirect	✓ Diebold Nixdorf	✓ Larsen & Toubro	✓ Sapiens
✓ AppDynamics	✓ DMart	✓ Lear Automotive	✓ SAS Global
✓ AstraZeneca	✓ eClerx	✓ LG Soft	✓ Sasken
✓ Athena Healthcare	✓ Ernst & Young	✓ Lowe's India	✓ Schlumberger
✓ Atos Syntel	✓ Fidelity	✓ Manhattan	✓ Seagate
✓ Axis Bank	✓ First American	✓ Mastercard	✓ Siemens
✓ Baker Hughes	✓ Fiserv	✓ MSCI	✓ Smartstream
✓ Bank of America	✓ Fujitsu	✓ Mercedes Benz	✓ SunGard
✓ Barclays	✓ Future Generali	✓ Mindtree	✓ Tata AIG
✓ Bentley	✓ GEP Solutions	✓ Microsoft	✓ Tata Elxsi
✓ BNP Paribas	✓ Golden Source	✓ Morgan Stanley	✓ Tata Power SED
✓ Boeing	✓ Happiest Minds	✓ Morning Star	✓ Tata Technologies
✓ Born Group	✓ HCL	✓ Motilal Oswal FS	✓ TCS
✓ Bosch	✓ Hella	✓ Mphasis	✓ Tech Mahindra
✓ C-DAC	✓ Here Maps	✓ Nihilent	✓ Teradata
✓ Capgemini	✓ Hitachi Systems	✓ Nokia	✓ Thyssen Krupp
✓ CISCO	✓ Honeywell	✓ Nomura India	✓ TIAA GBS
✓ CitiusTech	✓ HP	✓ NPCI	✓ Veritas
✓ Cognizant	✓ HSBC	✓ NSE India	✓ Whirlpool
✓ Continental	✓ Huawei	✓ OnMobile	✓ Wipro
✓ Coupa	✓ IBM	✓ Persistent	✓ Zensar
✓ Credit Suisse	✓ IKS Health	✓ PwC	✓ ZS Associates
✓ CRISIL	✓ Jio Platforms	✓ Quantiphi	
✓ Cumulus Systems	✓ John Deere	✓ Quick Heal	
✓ Cybage	✓ Johnson Controls	✓ QLogic	

5. C-DAC's Training Centres

Across India, C-DAC is offering Post Graduate Diploma courses through its centres located in Bengaluru, Chennai, Guwahati, Hyderabad, Kochi, Kolkata, Mumbai, Navi Mumbai, New Delhi, Noida, Patna, Pune, Silchar, and Thiruvananthapuram. Post Graduate Diploma courses are also offered by C-DAC's Authorised Training Centres (ATC) in Bhubaneswar, Indore, Jaipur, Karad, Mumbai, Nagpur, Nashik, New Delhi, Patna, and Pune. The address and contact details of these training centres can be found at https://www.cdac.in/index.aspx?id=edu_acts_TrainingCenters and also in Section 19 of this Admission Booklet. Tables 4a and 4b show the courses offered and the seat capacity at various training centres of C-DAC in the September 2023 batch. **Table 4a shows the online courses and Table 4b shows the physical courses.**

Table 4a: PG Diploma seat capacity at C-DAC's training centres – ONLINE COURSES.

Sr. No.	City	Centre Name	PG-DAC	PG-DBDA	PG-DAI	PG-DRAT	PG-DFBD	PG-DCSF	PG-DGi
1	Bhubaneswar	Lakshya	60						
2	Chennai	C-DAC	80	60					
3	Hyderabad	C-DAC	140						
4	Jaipur	NETCOM	60						
5	Kochi	C-DAC	90						
6	Kolkata	C-DAC	60	60		40			
7	Mumbai	C-DAC, Juhu	120						
8	Mumbai	C-DAC, Kharghar	140						
9	New Delhi	C-DAC	60						
10	New Delhi	Bytes Softech	120						
11	Noida	C-DAC	160	60	60				40
12	Patna	C-DAC	120				60		
13	Patna	Astric-COE	60						
14	Patna	Career Foresight	60						
15	Silchar	C-DAC	60	40	40				
16	Thiruvananthapuram	C-DAC	90	60				60	

Table 4b: PG Diploma seat capacity at C-DAC's training centres – PHYSICAL COURSES.

Sr. No.	City	Centre Name	PG-DAC	PG-DBDA	PG-DAI	PG-DESD	PG-DITISS	PG-DVLSI	PG-DIoT	PG-DMC	PG-DASSD	PG-DHPCSA
1	Bengaluru	C-DAC	240	120		120	60		60			
2	Chennai	C-DAC				40			40			
3	Guwahati	C-DAC	40									
4	Hyderabad	C-DAC		60		120	40	40			80	
5	Mumbai (Kharghar)	C-DAC		90								
6	New Delhi	C-DAC		60								
7	Noida	C-DAC				40	40	40				

Sr. No.	City	Centre Name	PG-DAC	PG-DBDA	PG-DAI	PG-DESD	PG-DITISS	PG-DVLSI	PG-DIoT	PG-DMC	PG-DASSD	PG-DHPCSA
8	Pune	C-DAC	240	60	40	60	60	40	30			30
9	Indore	Orlando Academy	60									
10	Karad	Sunbeam	120									
11	Mumbai	AIT (YCP), Nariman Point	120									
12	Mumbai	MET-IIT, Bandra	120									
13	Mumbai	USM's Shriram Mantri VITA, Juhu	120	60								
14	Nagpur	Soft Polynomials	60									
15	Nashik	MET-IIT	120									
16	Pune	IACSD, Akurdi	240	60			60					
17	Pune	IET, Shivajinagar	120									
18	Pune	Infoway, Kothrud	120									
19	Pune	Know-IT, Deccan	120	60								
20	Pune	Sunbeam, Hinjawadi	240	60		120	60			120		

6. Hostel/Canteen Facilities

Hostel and canteen facilities are available for students enrolled for physical courses at some of the C-DAC training centres as shown in the below Table. Hostel allotments are made on a first-come, first-served basis. However, outstation students will be given preference when the allotment is done. Some of the centres, which are not offering hostel facilities, may provide assistance to find out suitable boarding and lodging to their students.

Candidates interested to avail hostel accommodation should send their requests to the Administrative Officers at the respective training centres, after the admission lists are published. Hostel/canteen fees, room availability and other related information may be obtained by communicating to the respective centre's contact person whose name is mentioned at https://www.cdac.in/index.aspx?id=edu_acts_TrainingCenters and also in Section 19 of this Admission Booklet.

Table: Hostel/canteen facility at C-DAC's training centres.

Training Centre	Hostel	Canteen
AIT (YCP), Mumbai		✓
C-DAC, Bengaluru	✓	✓
C-DAC, Hyderabad	✓ (only for girls)	✓
C-DAC, Mumbai (Kharghar)	✓	✓
C-DAC, New Delhi		✓
C-DAC, Noida	✓	✓
C-DAC, Pune		✓
IACSD, Pune	✓	✓
MET-IIT, Mumbai		✓
MET-IIT, Nashik	✓	✓
Sunbeam, Karad	✓	✓
Sunbeam, Pune	✓	✓
USM's Shriram Mantri VITA, Mumbai		✓

7. C-DAC's Common Admission Test (C-CAT)

Admissions to all PG Diploma courses of September 2023 batch are done through C-DAC's Common Admission Test (C-CAT) that will be conducted in computerised mode physically at C-DAC's test centres on July 15 and July 16, 2023. Candidates have to apply for C-CAT online at www.cdac.in or acts.cdac.in. Candidates who clear the July 2023 C-CAT will only be considered for admission to C-DAC's PG Diploma courses of September 2023 batch on the basis of their C-CAT ranks and centre/course preferences.

7.1 C-CAT Test Papers

C-CAT has three sections (Section A, Section B, Section C) of one hour duration each. As shown in Table 5, depending on the category of courses selected by the candidate, he/she will have to either appear for just one test paper (Section A) or two test papers (Section A and Section B) or all the three test papers (Section A, Section B and Section C). The medium of C-CAT is English.

Important Note: A candidate can appear only for the specific section(s) in C-CAT as per the category of the courses opted by him/her at the time of filling the online application form.

Every section in C-CAT will have 50 objective-type questions. Each question will have four choices as possible answers of which only one will be correct. There will be +3 (plus three) marks for each correct answer, -1 (minus one) for each wrong answer, and 0 (zero) marks for each un-attempted question. The maximum mark a candidate can obtain in any one section of C-CAT is 150.

Table 5: Categories of PG Diploma courses and the corresponding test paper(s) in C-CAT.

COURSE CATEGORY	COURSE NAME	C-CAT PAPER(S)
I	PG Diploma in Geoinformatics (PG-DGi)	Section A
II	PG Diploma in Advanced Computing (PG-DAC)	Sections A & B
	PG Diploma in Big Data Analytics (PG-DBDA)	
	PG Diploma in IT Infrastructure, Systems & Security (PG-DITISS)	
	PG Diploma in Artificial Intelligence (PG-DAI)	
	PG Diploma in Internet of Things (PG-DIoT)	
	PG Diploma in Mobile Computing (PG-DMC)	
	PG Diploma in Advanced Secure Software Development (PG-DASSD)	
	PG Diploma in HPC System Administration (PG-HPCSA)	
	PG Diploma in FinTech & Blockchain Development (PG-DFBD)	
	PG Diploma in Cyber Security & Forensics (PG-DCSF)	
	PG Diploma in Robotics & Allied Technologies (PG-DRAT)	
III	PG Diploma in Embedded Systems Design (PG-DESD)	Sections A, B & C
	PG Diploma in VLSI Design (PG-DVLSI)	

7.2 C-CAT Syllabus

Table 6a: Indicative syllabus of the different sections of test papers in C-CAT.

TEST PAPER	TOPICS	DURATION
Section A	English, Quantitative Aptitude, Reasoning, Computer Fundamentals & Concepts of Programming	1 hour
Section B	C Programming, Data Structures, Object Oriented Programming Concepts using C++, Operating Systems & Networking, Basics of Big Data & Artificial Intelligence	1 hour
Section C	Computer Architecture, Digital Electronics, Microprocessors	1 hour

The list of reference books for the various topics of C-CAT is given in Table 6b. Candidates are, however, advised to read more books than the ones specified in this table.

Table 6b: Reference books for the various topics in C-CAT.

SECTION	TOPIC	REFERENCE BOOK
A	English	Any High School Grammar Book (e.g. Wren & Martin)
	Quantitative Aptitude & Reasoning	Quantitative Aptitude Fully Solved (R. S. Aggrawal) Quantitative Aptitude (M Tyara) Barron's New GRE
	Computer Fundamentals & Concepts of Programming	Foundations of Computing (Pradeep Sinha & Priti Sinha)
B	C Programming	C Programming Language (Kernighan & Ritchie) Let Us C (Yashavant Kanetkar)
	Data Structures	Data Structures Through C in Depth (S. K. Srivastava)
	Operating Systems & Networking	Operating System Principles (Silberschatz, Galvin, Gagne) Data Communication & Networking (Forouzan)
	OOP Concepts	Test Your C ++ Skills (Yashavant Kanetkar)
	Basics of Big Data & AI	Fundamentals of Data Engineering (Joe Reis, Matt Housley) Artificial Intelligence for Dummies (John Paul Mueller, Luca Massaron)
C	Computer Architecture	Computer Organization & Architecture (William Stallings)
	Digital Electronics	Digital Design (Morris Mano) Digital Design: Principles & Practices (John Wakerly) Modern Digital Electronics (R. P. Jain)
	Microprocessors	Microprocessor Architecture, Programming & Applications with 8085 (Ramesh Gaonkar) The Intel Microprocessor (Barry Brey)

7.3 C-CAT Schedule

C-CAT for admission to the September 2023 batch of PG Diploma courses will be held in computerised mode physically at C-DAC's test centres on July 15 and July 16, 2023. The tentative schedule for different test papers of C-CAT is given in Table 7. The exact schedule of C-CAT will be communicated to the candidates through the Admit Card.

Table 7: Tentative schedule of July 2023 C-CAT.

C-CAT Dates	Test Paper	Morning Slot Timings	Afternoon Slot Timings
15 July 2023 ; **16 July 2023**	Section A	9:30 am – 10:30 am	2:00 pm – 3:00 pm
	Section B	10:45 am – 11:45 am	3:15 pm – 4:15 pm
	Section C	12:00 noon – 1:00 pm	4:30 pm – 5:30 pm

7.4 C-CAT Cities

C-CAT will be conducted in computerised mode in various cities across India. The list of cities where C-CAT will be conducted in July 2023 is given in Table 8. Candidates need to give 3 choices of cities while filling the online C-CAT application form. Refer to Section 14(b) of this Admission Booklet regarding C-CAT city preferences and allocation. All C-DAC test centres will adhere to the safety precautions issued by the government.

The C-CAT city once selected in the online application form cannot be changed unless approved in writing by C-DAC, subject to availability of seats on the requested city. All such signed letters of requests with proof of valid reasons should be received at actssupport@cdac.in before the last date of C-CAT application.

Table 8: Cities where C-CAT will be conducted in July 2023*.

Ahmedabad	Aurangabad (MH)	Bengaluru	Bhilai	Bhopal	Bhubaneswar
Chennai	Guwahati	Hyderabad	Indore	Jaipur	Karad
Kochi	Kolhapur	Kolkata	Lucknow	Mohali	Mumbai
Nagpur	Nashik	Navi Mumbai	New Delhi	Noida	Patna
Prayagraj	Pune	Ranchi	Silchar	Solapur	Thiruvananthapuram
Varanasi	Vijayawada				

> * *C-DAC at its discretion may cancel any of the above C-CAT cities due to less number of candidates or any emergency situation arising out of pandemic/calamities or any other relevant reasons. Refer to Section 14(b) regarding C-CAT city preferences and allocation.*

8. C-CAT Fee

C-CAT fee structure is given in Table 9. **Candidates may note that the C-CAT fee once paid is not refundable.**

Table 9: Category-wise C-CAT fee (inclusive of GST).

Course Category	C-CAT Paper(s)	C-CAT Fee
I	A	Rs 1350/-
II	A+B	Rs 1550/-
III	A+B+C	Rs 1750/-

After filling the online C-CAT application form, **the examination fee must be paid online**. It can be paid using credit/debit cards through the payment gateway that will be opened upon clicking the *'Online'* option of the *'Make Payment*' step on the main menu of the application. Candidates are advised to follow the instructions/steps given on the payment gateway, and also print/save the transaction details for their records.

On receiving the examination fee at C-DAC, the '*Make Payment*' step on the main menu of the online application will be tick-marked, and the status of payment will be updated on the '*Status Check*' menu. The pdf application form obtained by clicking the '*View/Print Application Form'* on the main menu will now have the transaction details of the payment made. Candidates facing any issues during online payment may contact C-DAC ACTS Pune through phone (020-25503143) or email (actssupport@cdac.in).

9. C-CAT Admit Cards

Candidates can download their admit cards from C-DAC's website during the dates mentioned under **Important Dates**. The venue, date and time of C-CAT will be communicated to the candidates on the admit cards. Instructions for appearing C-CAT will also be given on the admit card. **Candidates must appear for C-CAT on the date and time at the venue specified on the admit card.** The examination fee will not be refunded to candidates who are absent or coming late for C-CAT.

No candidate will be permitted to appear for C-CAT without a valid admit card. The admit card along with a photo identity proof must be presented to the C-CAT officials/invigilators for verification at the time of the test.

10. C-CAT Ranking

Candidates will be provided ranks based on their performances in Section A, Sections A+B, Sections A+B+C of C-CAT. If a candidate appears for multiple sections and qualifies in them, he/she will be provided multiple ranks. For example, if a candidate appears for Sections A and B by choosing Category II in the application form, he/she will be provided two ranks: (i) based on the performance in Section A, and (ii) based on the performance in Sections A+B.

Candidates with the lowest 20% performances in section A and section B and the lowest 10% performance in section C of C-CAT will not be qualified for ranking in that particular section and its higher sections. Even after the removal of the lowest performers as stated above, if there exist candidates in any section with zero or less than zero marks, then these candidates will also not be qualified for ranking.

All qualified candidates will be awarded Category I ranks based on their performance in Section A. Qualified candidates who have selected Category II in the C-CAT application form will be awarded Category I and II ranks based on their performances in Sections A and A+B. Qualified candidates who have selected Category III will obtain Category I, II and III ranks based on their performances in Sections A, A+B and A+B+C.

Important Notes:

(i) If a candidate has applied for Category II or III, but is not qualified in Section A due to poor performance in it, he/she will not get any rank in Category I or II or III, even if the candidate has got good marks in Section B and C.

(ii) Similarly, if a candidate has applied for category II or III, but is not qualified in Section B due to poor performance in it, he/she will not get any rank in Category II or III. However, the candidate may get a rank in Category I if he/she is qualified in Section A.

Tie-Breaker Rule: If two or more candidates have acquired the same marks in Section A or Sections A+B or Sections A+B+C, then the candidate having more marks in Section A will be given the higher rank. If these candidates have the same marks in Section A also, then the candidate having higher value in the ratio of 'number of correct answers / number of attempted questions' in the specific section required only for that category of courses will be given the higher rank. Candidates who have the same value of this ratio, and having the same total as well as Section-A marks will be given the same C-CAT rank.

Admissions to C-DAC's PG Diploma courses at various training centres will be offered in the order of ranks obtained in C-CAT and based on the preferences of courses and centres given by the candidates during online counselling. Only those candidates who are in the C-CAT rank-list will be considered for admissions to C-DAC's PG Diploma courses.

Rank-lists of July 2023 C-CAT are only applicable for admission to the September 2023 batch of C-DAC's PG Diploma courses. Candidates should note that mere appearance in C-CAT or being in any of the rank-lists neither guarantees nor provides any automatic entitlement to admission. Qualified candidates will have to apply for admission as per the prescribed procedure.

11. Counselling & Seat Allocation Process

C-DAC's PG Diploma admission process has two counselling sessions and three rounds of seat allocations. Counselling means online filling of preferences of courses and training centres by the candidates.

- There are two rounds of seat allocations based on the **first counselling**. This means that using the course-centre preferences given by the candidates during the first choice filling, two rounds of seat allocations (Round 1 and Round 2) will be done. Further details of the first counselling and first/second rounds of seat allocations are given in Sections 16(f-j) of this Admission Booklet.

    Depending on their C-CAT ranks, candidates will be allocated seats strictly based on the order of preferences of courses and centres given by them during the counselling. If some candidates' ranks are not good enough to get them their top preferences in the first round of seat allocations, they may be offered their lower preferred courses/centres depending on their ranks. Such candidates may be allocated their higher-preferred course/centre in the second round of seat allocation, depending on their ranks. However, if candidates get their first preference in the first round of seat allocation itself, then that will be their final allocated seat and there will be no change for them in the second round of seat allocations. The seats allocated in the second round are final and there will be no further change in them.

- Through the **second counseling**, candidates who have not got/confirmed admission are given one last chance to online fill their preferences of courses and training centres for the vacant seats that arise after the second round of admissions. The second counselling is scheduled after the payment of the first installment fee of the second round of seat allocation. The third round of seat allocation is based on the second counseling. The categories of candidates who are eligible to take part in the second counselling, and more details of the second counselling and third round of seat allocation, are given in Sections 16(k-l) of this Admission Booklet.

During both the counselling sessions, candidates will be permitted to give preferences for only those courses belonging to the category they had selected in the C-CAT application form. However, a candidate can give as many preferences of training centres and courses belonging to the applied C-CAT category.

Based on the C-CAT ranks, <u>admissions to various courses at different training centres are offered in the order of preferences of courses and centres given by the candidate and the number of seats available for the courses at the particular centres.</u> **Therefore candidates must take utmost care while filling the order of preference of the courses and centres.** Under any circumstance, a candidate will not be allocated another course/centre which was not given as a preference during the counselling stage.

Important Note: **A candidate cannot join a lower preferred choice if he/she is allocated a higher preference in any round of seat allocation.**

Open Day: After all the three rounds of seat allocations, an Open Day may be conducted for selected C-DAC centres that still have some vacant seats.

12. Payment of Course Fee

12.1 Course Fee

The fees of all the PG Diploma courses (online and physical) offered by C-DAC are mentioned in Tables 10a and 10b. Government prescribed Goods & Services Tax (GST) rate shall be applicable at the time of payment of fee. *GST is 18% as in June 2023*. The course fee includes expenses towards delivering classes, conducting examinations, final mark-list and certificate, and placement assistance provided.

Table 10a: September 2023 batch PG Diploma course fee – Online Courses.

Course	Course Fee
PG-DAC, PG-DGi, PG-DRAT, PG-DCSF	Rs 76,500/- + GST
PG-DBDA	Rs 97,750/- + GST
PG-DFBD	Rs 106,250/- + GST
PG-DAI	Rs 127,500/- + GST

Table 10b: September 2023 batch PG Diploma course fee – Physical Courses.

Course	Course Fee
PG-DAC, PG-DESD, PG-DITISS, PG-DVLSI, PG-DIoT, PG-DMC, PG-DASSD, PG-DHPCSA	Rs 90,000/- + GST
PG-DBDA	Rs 1,15,000/- + GST
PG-DAI	Rs 1,50,000/- + GST

The fee for all the PG Diploma courses is to be paid in two installments (details given below). Candidates may take note that no Demand Draft (DD) or cheque or cash will be accepted at any C-DAC training centre towards payment of any installment of course fees.

12.2 First Installment of Course Fee

The first installment course fee of Rs 10,000/- + GST on it as applicable at the time of payment (August/September 2023) is to be paid **online** as per the schedule given under **Important Dates** (Table 13). It can be paid using credit/debit cards through the payment gateway that will be opened upon clicking the '**Pay First Installment**' button on the candidate's logged-in page on the C-DAC website. Candidates are advised to follow the guidelines given on the payment gateway, and also to print/keep the transaction details for their record.

On receiving the first installment fee at C-DAC, payment received message will be displayed when the candidate logs in on the C-DAC website and receipt of the first installment payment will be e-mailed to the candidate's registered email id. Candidates are advised to contact C-DAC Mumbai (022-27565308 / 26201604) regarding any issues they face during the payment of first installment of course fee.

12.3 Second (Final) Installment of Course Fee

The second installment fees of the various PG Diploma courses (online and physical) are given in Tables 11a and 11b. **It is to be paid before 5 September 2023 through NEFT from any bank to the account of the C-DAC centre where the candidate is finally allocated for his/her PG Diploma course.** For all authorised training centres of C-DAC, the payment is to be made to C-DAC Pune. GST will be applicable as prescribed by the government at the time of payment of fees.

Table 11a: Second installment fees of the PG Diploma courses – Online Courses.

Course	Second Installment Fee
PG-DAC, PG-DGi, PG-DRAT, PG-DCSF	Rs 66,500/- + GST
PG-DBDA	Rs 87,750/- + GST
PG-DFBD	Rs 96,250/- + GST
PG-DAI	Rs 117,500/- + GST

Table 11b: Second installment fees of the PG Diploma courses – Physical Courses.

Course	Second Installment Fee
PG-DAC, PG-DESD, PG-DITISS, PG-DVLSI, PG-DIoT, PG-DMC, PG-DASSD, PG-DHPCSA	Rs 80,000/- + GST
PG-DBDA	Rs 1,05,000/- + GST
PG-DAI	Rs 1,40,000/- + GST

Candidates are advised to follow the steps given below for NEFT payment.

(a) Click on "**NEFT for 2nd Installment**" button that will be seen after logging in on the C-DAC website using candidate's Form No.

(b) Print the NEFT form that will be opened. Details of the bank account to which the candidate has to transfer the second installment fee will be given on it.

(c) If the candidate has personal net banking facility, he/she can make online transfer of the fees using the details given on the NEFT form.

(d) If the candidate does not have personal net banking facility, submit the NEFT form at any bank having NEFT facility along with the cheque leaf for the fees amount.

(e) Keep a record of the NEFT form with the UTR (unique transaction) number and other required details written on it. (Candidate has to submit it at the admitted centre while joining the course.)

(f) After the NEFT payment, carefully enter the NEFT transaction (UTR) number, name of account holder (from whose account the money is transferred), city and IFSC of the bank (from where the money is transferred), and transaction date in the text boxes that will be appearing on candidate's logged in page on the C-DAC website.

(g) It may take up to 48 hours for the NEFT payment to be reflected on the Payment Status page.

On receiving and confirming the second installment at the allocated C-DAC centre, payment received message will be displayed when the candidate logs in on the C-DAC website. Candidates can download the receipt of the second installment payment and email it to their own registered email id. Candidates may contact their allocated centre regarding any issues they face during the payment of second installment fee as well as to know status of their payment.

Important Notes:

(i) After the second installment payment, if candidates wish to know the status of their payment, they need to contact their allocated centre (where they have credited the second installment). Contact details of all C-DAC centres are given in the last section of this Admission Booklet.

(ii) Candidates should enter the correct NEFT details, otherwise their payment confirmation may be delayed.

13. Cancellation and Refund

Candidates must read and understand the rules pertaining to payment and refund of fees, before seeking admission to any course. **No disputes regarding refunds will be entertained once the fees are paid.**

If a course at a particular training centre is cancelled by C-DAC due to any reasons, the course fee paid will be refunded to the candidates. However, these candidates may be offered admission to (i) the same course at another training centre preferred by them where seats are available as per their ranks; or (ii) another course preferred by them at the same centre or another centre of their choice, where seats are available as per their ranks. In such cases, the candidates have the option to choose the alternate centre/course before withdrawing the course fee paid.

During verification of the certificates at the time of registration, if any candidate is found to be non-eligible for the admitted course, the first installment fee of Rs 10,000/- + its GST will not be refunded. Provisionally admitted students who are unable to produce the proof of qualification for the admitted course by 31 December 2023 will not be eligible for any refund of fees paid.

Candidates desiring to withdraw their admission during any stage of the admission process (i.e. before the date of commencement of the course) may do so by online filling the withdrawal form that can be accessed using their login on the C-DAC website. After submitting the form online, candidates should print the withdrawal form, sign, scan and email it to actsfinance@cdac.in before the last date of withdrawal. Candidates should write '*Request for withdrawal from PG Diploma admission*' as the subject of the email. No e-mail requests for withdrawal without attaching the signed withdrawal forms will be entertained. **Online withdrawal entries without emailing the signed withdrawal forms will not be considered for withdrawal or refund.**

Withdrawal of admission by a candidate/student will attract penalties as given in Table 12. After deducting the penalty amount, the balance of fees paid (if any) will be refunded to the candidates/students within two months of commencement of the course. In Cases 1, 2 & 3 of Table 12, the signed withdrawal forms should reach C-DAC ACTS Pune (actsfinance@cdac.in) before 5 pm on the last date mentioned.

Table 12: Penalty on withdrawal of admission

Case	Withdrawal Period	Deduction (Rs) (Penalty)	Form to be Submitted at
1	7-14 August 2023 (5 pm)	Rs 1000/- + its GST	actsfinance@cdac.in
2	15-22 August, 2023 (5 pm)	Rs 5000/- + its GST	actsfinance@cdac.in
3	23 August – 7 September 2023 (5 pm)	Rs 10,000/- + its GST	actsfinance@cdac.in
4	8 September – 9 October, 2023	50% of the total course fees + its GST	Admitted centre
5	After 9 October 2023	Full fees + its GST (No refund)	Admitted centre

Students desiring to withdraw their admission after the commencement of the course (Cases 4 & 5 in Table 12) may do so by submitting the prescribed withdrawal forms (that are available at the training centre) at the admitted centre.

The full caution deposit of Rs 10,000 + GST will be refunded to the candidates who are not allocated any seat in the third round of seat allocation based on the second counselling. However, the caution deposit will not be refunded to the candidates to whom any seats are allocated through the third round.

14. Additional Terms & Conditions

(a) Candidate/student agrees that the information provided by them during application/ admission/ course through forms, emails, or other means are correct. Candidate/ student allows C-DAC to use the information provided by them for its own purposes, to the extent allowed by applicable laws, and contact them for communication through notification on its websites, emails, or SMS.

(b) The cities, dates, etc. for C-CAT are indicative/tentative and may change as per evolving pandemic related orders of the government and local authorities. Candidate agrees that while their city preferences for C-CAT will be taken into consideration for allotting test centres, C-DAC may allot any city or centre for operational and practical reasons at its own discretion.

(c) Candidate/student agrees to provide reasonable additional information including, but not limited to, identification, fingerprint, audio / video surveillance, etc. for conduction or proctoring of physical or online examination for admission or course progression.

(d) C-DAC reserves the right to modify or cancel any parts of the Admission Booklet, processes and results including, but not limited to, exams, mode of exams, question papers, announced dates, courses, syllabus, cities, centres, intake capacities, ranks, seat allocation, candidatures, admissions, etc. as it deems fit, at any stage without assigning any reasons thereof.

(e) Application to the courses by candidates and/or admission in any of the courses by students shall indicate their acceptance of all Terms & Conditions, Conduct Rules, Dos & Don'ts, etc. as may be prescribed by C-DAC from time to time. C-DAC shall have the right to impose

appropriate disciplinary and other penalties for violation of prescribed terms and rules, including cancellation of candidature, admission, placements, and/or award of PG Diploma.

(f) In case a candidate is found to be non-eligible during any stage of the admission process or course delivery, his/her admission will stand cancelled with immediate effect and he/she will be subjected to the penalty clauses stated in section 13.

(g) Use of any unfair means, coercion, inducement, violent, indecent, disorderly, threatening, or offensive behaviour or language by way of gesture, voice, writing, symbols, etc. shall constitute ground for suspension/expulsion from C-CAT and/or course, or debarment from joining/attending C-DAC examination(s) and/or course(s) in future. Decision of C-DAC in this regard shall be final and binding. Such students shall be subjected to the penalty clauses stated in section 13.

(h) All communication from candidates must be made only to the email addresses and phone numbers given in relevant sections of this Admission Booklet. **Sending emails or phone calling or messaging directly to officials of C-DAC or ATCs or parent Government bodies is prohibited.**

(i) The courses, being full time, require that the students must engage and be available fully for the course enrolled in to. Students shall not engage in any other full-time/part-time activity, job, profession, educational course, etc. during the entire course period without prior permission. Non-compliance, may attract appropriate disciplinary and other penalties, including cancellation of candidature, admission, placements, and/or award of PG Diploma.

(j) All decisions of C-DAC with regards to the admission booklet, processes and results shall be final and binding on all candidates/students.

> **With regard to the interpretation of the provisions of the Admission Booklet, the decision of C-DAC shall be final and binding on all the parties concerned.**

15. Important Dates

Table 13: Important dates related to admission to C-DAC's PG Diploma courses of September 2023 batch through the C-CAT of July 2023.

No.	Event	Date	
a	Beginning of Online Registration and Application for C-CAT	6 June 2023	
b	**Closing of Online Registration & Application, and Payment of Examination Fee for C-CAT**	**5 July 2023**	
c	Downloading of C-CAT Admit Cards	11 - 15 July, 2023	
d	**C-DAC's Common Admission Test (C-CAT) at the Test Centres**	**15 July 2023**	**16 July 2023**
e	Announcement of C-CAT Ranks	28 July 2023	
f	**Online Selection of Courses and Centres (1st Counselling)**	28 July – 4 August 2023	
g	Declaration of First Round of Seat Allocation	7 August 2023	
h	**Last Date of Payment of first installment course fee (Rs 10,000 + GST) for candidates allocated seats through the first round**	14 August 2023 (till 5pm)	
i	Declaration of Second Round of Seat Allocation	18 August 2023	
j	**Last Date of Payment of first installment course fee (Rs 10,000 + GST) for candidates allocated seats through the second round**	**22 August 2023 (till 5pm)**	
k	**Payment of caution deposit (Rs 10,000 + GST) and Online Selection of Courses and Centres (2nd Counselling)**	**24 - 30 August, 2023 (till 5 pm)**	
l	Declaration of Third Round of Seat Allocation (based on 2nd Counselling)	31 August 2023	
m	**Last Date of Payment of Balance Course Fee**	5 September 2023	
n	Last Date of Registration of Students	6 September 2023	
o	**Start of PG Diploma Courses across India**	**8 September 2023**	
p	**End of PG Diploma Courses across India**	**22 February 2024**	

16. What Happens on the Important Dates?

(a)	Beginning of Online Registration and Application for C-CAT	6 June 2023

Step 1: C-CAT Registration

The process of admission to C-DAC's PG Diploma courses begins with registration of prospective candidates on the C-DAC website, **www.cdac.in** or **acts.cdac.in** . Candidates are advised to read the instructions carefully while filling the online registration and application forms. Upon registering, candidates will get their Form Number that can be used to log in and fill the C-CAT application form online.

Important Note: The Form Number and password must be remembered by the candidate as it will be the reference number and login ID of the candidate during the whole admission process.

Step 2: C-CAT Application – Filling Personal Details

Once candidates have completed registration, the next step is to log in and fill the C-CAT application form by entering the personal and qualifying degree details. All particulars provided in the registration and application forms must match with those in the documents that will be submitted at the time of admission.

Step 3: C-CAT Application – Selection of Category of Courses

Next, candidates have to select the category (I or II or III) of PG Diploma courses which they wish to apply.

Important Notes:

(i) Candidates selecting category III can apply for all PG Diploma courses of C-DAC, provided they are eligible for these courses and obtain CCAT ranks in all the three categories.

(ii) Similarly, Category II candidates can apply for the courses under category I and II, where as category I candidates can apply for PG-DGi only.

(iii) Once the application form is submitted online, candidates will not have option to change the category of courses selected in the application form.

Step 4: C-CAT Application – Uploading Candidate's Photo

After filling the application form, candidates have to upload their clear passport size photograph.

Step 5: C-CAT Application – Selection of Examination City

In this step, **candidates must give three choices of cities for appearing C-CAT.** Refer to Section 14(b) of this Admission Booklet regarding C-CAT city preferences and allocation.

Step 6: C-CAT Application – Payment of Examination Fee

The final step of C-CAT application is the online payment of C-CAT fee. The details of payment are given in the section **C-CAT Fee**.

The steps successfully completed in the application process are shown with a tick-mark on the main menu of the online application. Candidates are advised to print/screen-shot their filled-in application form that can be obtained by clicking the '*View/Print Application Form'* on the main menu and keep it for their records. **Candidates facing any issues during online registration and application may contact C-DAC ACTS Pune** (020-25503143 ; actssupport@cdac.in).

(b)	Closing of Online Registration & Application, and Payment of Examination Fee for C-CAT	**5 July 2023**

The online registration and application of candidates for C-CAT will close on 5 July 2023. The payment of examination fee will also be closed at this point.

(c)	**Downloading of C-CAT Admit Cards**	**11 - 15 July 2023**

Candidates can download their C-CAT admit cards during this period by logging in on the C-DAC website. After downloading the admit cards, candidates should examine all the entries therein and also carefully read and follow the instructions on the cards. In case of any discrepancy in the details provided, or if candidates are unable to download the online admit card, then they should contact C-DAC ACTS Pune immediately through phone (020-25503134/ 136/128/107) or e-mail (actssupport@cdac.in), giving their name and C-CAT form number.

Candidates will not be able to download their admit cards, if they have not made the payment of C-CAT fee before the last date of payment, or if they have not given preferences of C-CAT cities while applying for C-CAT. No candidate will be permitted to appear for C-CAT without bringing his/her admit card to the centre.

(d)	**C-DAC's Common Admission Test (C-CAT)**	**15 July 2023**	**16 July 2023**

The computer-based C-CAT for admission to C-DAC's September 2023 batch of PG Diploma courses will be conducted on two dates, viz., 15 July 2023 and 16 July 2023 in various cities across India. The details of C-CAT are given in the section **C-DAC's Common Admission Test** of this Admission Booklet. **Candidates must appear for C-CAT on the specified date and time at the venue mentioned on their admit card.** Latecomers will be neither given any extra time nor refund of examination fee.

Important Note: Candidates who have opted Category I in their application form can appear for only section A of C-CAT. Category II candidates can appear for Sections A and B, whereas Category III candidates can appear for all the Sections (A, B and C) of C-CAT.

Before attempting the questions of C-CAT, candidates are advised to carefully read and follow the instructions given along with the admit card and question paper. Accessing web-pages other than C-CAT and/or using calculators/mobile phones/electronic gadgets are not allowed during the test. **Use of unfair means by a candidate, whether detected at the time of the test, evaluation or at any other stage, may lead to cancellation of his/her candidature, admission, and/or award of Diploma.** Candidates must ensure that they do not use any mode or medium of study/ reference materials / text books / other persons / external communications, etc. during C-CAT, which shall also be treated as "use of unfair means".

(e)	Announcement of C-CAT Results	28 July 2023

C-CAT results will be published on the C-DAC website on 28 July 2023, which can be checked using candidate's login. Candidates will be provided ranks based on their performances in Section A, Sections A+B and Sections A+B+C. If a candidate has appeared for multiple sections in C-CAT, he/she may be obtaining multiple ranks as explained in the section **C-CAT Ranking**. In order to be considered for admission to a desired course, a candidate's name must appear in the C-CAT rank-list of the category corresponding to the desired course.

(f)	Online Selection of Courses and Centres (1st Counselling)	28 July – 4 August 2023

During these dates, candidates are required to give (online) their order of preferences of courses and training centres by logging in on the C-DAC website using their form number and password. **Depending on their C-CAT ranks, candidates will be allocated seats strictly based on their order of preferences of courses and centres.** Online selection of courses/centres will close on 4 August 2023. Candidates facing any issues during online selection of course/centre may contact C-DAC Mumbai through phone (022-27565308 / 26201604) or e-mail (course-enquiry@cdac.in).

The list of courses offered and the maximum number of seats available at all training centres of C-DAC are given in Table 4 of this Admission Booklet. During counselling, a candidate may give as many course-centre preferences as desired. Rank-wise seat allocation will be done based on these preferences and the availability of seats. **Under any circumstance, a candidate will not be allocated another course/centre which was not given as a preference during the counselling stage.**

Important Notes:

(i) **Candidates will be permitted to give preferences for only those courses belonging to the category they had selected in the C-CAT application form.**

(ii) Candidates are advised to verify the eligibility of each course before opting for it during choice filling. It will entirely be the responsibility of candidates to prove that they satisfy the minimum eligibility requirements of the courses for which they are seeking admission.

After choosing the preferred courses and centres in the Choice Filling software, candidates should save their preferences. The unsaved preference list will be shown in red background and will be lost upon logging out without saving. The saved preference list can be modified (if

required) and again saved by the candidate till 4 August 2023. These course-centre preferences will be considered in the seat allocation process in their order of preferences. Candidates will have the option to print/save the list of course-centre preferences saved by them.

Candidates can add or delete preferences and also change their order of preferences until 4 August 2023. **The last-saved course-centre preferences will be considered as final. A candidate cannot opt for a lower preferred choice if he/she is allocated a higher preference in any round of seat allocation.**

Important Notes:

(i)   The ORDER of preferences of courses/centres is very important, as seat allocations will happen strictly as per the order given by the candidates and their C-CAT ranks.

(ii) If a candidate has not given preference for a particular course or a centre during the choice filling stage, he/she will not be considered for this particular course/centre in any further admission process.

(iii) After the last date of choice filling, there is no provision for a candidate to edit/add/delete any preferences, even for the second round of seat allocations.

(g)	**Declaration of First Round of Seat Allocation**	**7 August 2023**

The course and centre allocated to the candidates are published online on 7 August 2023. Admissions to various courses at different training centres are offered in the order of C-CAT ranks and preferences of courses and centres given by the candidate and the number of seats available for the courses at the particular centres. If some candidates' ranks are not good enough to get them their top preferences, they may be offered their lower preferred courses/centres depending on their ranks. Such candidates **may be** allocated their higher-preferred course/centre in the second round of seat allocation, depending on their ranks.

Candidates will get to know the course/centre allocated to them by logging in on the C-DAC web site. All the seat-allocated candidates will also receive an e-mail notification. Once a candidate is allocated a centre, no manual request for transfer to another centre may be considered at any stage. **Seat allocation will happen only as per the order of preferences already given by the candidates.**

(h)	**Last date of payment of first installment course fee for candidates allocated seats through the first round**	**14 August 2023 (till 5 pm)**

Once a seat is offered to a candidate, he/she must pay the first installment fee of Rs 10,000/- + GST as applicable in August 2023 as a token amount to confirm the admission. The mode of payment of fee is explained in the section **Payment of Course Fee**. Online payment of first installment course fee should be strictly done before 5 pm on 14 August 2023. Delays due to any reason are not acceptable.

Candidates who have been offered seats through the first round of seat allocation, but have not paid the first installment by 5 pm on 14 August 2023 will not be considered for the second round of seat allocation. It will be assumed that these candidates do not want to take admission and their names will be removed from the second round of seat allocation processing. Therefore, in order to be considered for the second round of allocation, candidates are advised to pay the first installment and confirm their admission, even if the course/centre allocated in the first round is not their top preference. It may happen that the candidate may be allocated a higher-preferred course/centre in the second round of seat allocation.

(i)	**Declaration of Second Round of Seat Allocation**	**18 August 2023**

Candidates who have already filled their choices of centres/courses but are not offered seats in the first round of seat allocation will be considered for the second round of seat allocation. In addition, candidates who have been already allocated seats in the first round of allocation, but did not get their top preferences, will also be considered in this round of seat allocation for their higher-preferred courses. The second round of seat allocation will be based on the preferences already given by the candidates during the first counselling (before the first round of allocation).

Upon logging in on the C-DAC website on 18 August 2023, candidates will get to know the course/centre allocated to them in the second round. All the candidates who have got their seats allocated in this round will also receive an e-mail notification. The seats allocated in the second round are the final seats.

(j)	**Last date of payment of first installment fee for candidates allocated seats first-time through the second round**	**22 August 2023 (till 5 pm)**

Candidates who are allocated seats for the first time through the second round are required to pay the first installment fee of Rs 10,000/- + GST on it as applicable in August 2023 as a token amount to confirm their admission. The mode of payment of fees is explained in the section **Payment of Course Fee**. Online payment of first installment course fee should be strictly done before 5 pm on 22 August 2023. Delays due to any reason are not acceptable. **Candidates who have already paid the first installment fee after the first round of seat allocation are not required to pay this amount again.**

Important Note: Candidates who have been allocated seats in any round of seat allocation, but have failed to confirm their admission (by not paying the first installment course fee) will have their seat allocations cancelled.

(k)	**Payment of caution deposit and online selection of course and centre (2nd Counselling)**	**24 - 30 August, 2023 (till 5 pm)**

The second counselling (choice filling) will be done online by the candidates during 24 - 30 August, 2023 for the vacant seats available at C-DAC's training centres. In this new choice filling too, candidates can give preferences only for those courses belonging to the category for

which they have ranks in C-CAT. Seat allocations will be done based on their rank and course-centre preferences for the vacant seats only.

After logging in on the C-DAC website, candidates can check their centre/course eligibility for second counseling based on the C-CAT cut-off rank of the centre/course. **Only the courses/ centres that are rank-wise eligible for the candidate will be displayed in his/her list.** Candidates can give their order of preferences of only the eligible courses and training centres. The details of the counselling process are given in section 16(f) of this Admission Booklet.

Candidates who have ranks obtained through the C-CAT conducted in July 2023 can participate in the second counselling, provided they belong to one of the following categories:

i. Candidates who did not participate in the first choice filling (counselling) during 28 July – 4 August 2023.

ii. Candidates who were not allocated seats based on the first choice filling (counselling).

iii. Candidates who were allocated seats based on the first choice filling, but have not paid the first installment course fee.

iv. Candidates who were allocated seats based on the first choice filling and have paid the first installment fee, but subsequently withdrawn their admissions.

In order to participate in second counselling, candidates belonging to the above-mentioned four categories have to pay a caution deposit of Rs 10,000/- + GST on it as applicable in August 2023. After the confirmation of payment of this caution deposit, candidates can give as many preferences of eligible centre/courses from the available list.

Important Notes:

(i) **In the second choice-filling, candidates should give preference to any centre/course only if they are keen on taking admission to it. Caution deposit shall not be refunded to candidates who are allocated seats in the third round.**

(ii) Candidates may note that, in anticipation of getting a higher preferred course through the second counselling, withdrawing or not confirming admission of a seat allocated through the first counselling may be a risky affair.

Candidates facing any issues during online selection of course/centre may contact C-DAC Mumbai through phone (022-27565308 / 26201604) or e-mail (course-enquiry@cdac.in).

(l)	**Declaration of Third Round of Seat Allocation**	**31 August 2023**

The course and centre allocated to the candidates who participated in the second counselling are published online on 31 August 2023. Candidates are allocated the vacant seats based on their ranks and fresh preferences given in the second counselling. They will get to know the course/centre allocated to them by logging in on the C-DAC website, and also through email.

The full caution deposit of Rs 10,000/- + GST shall be refunded to the candidates who are not allocated any seat in the third round. Candidates who are allocated seats in the third round should go ahead with their seats. No caution deposit shall be refunded to the candidates to whom seats are allocated through the third round.

(m)	**Last Date of Payment of Balance Course Fee**	**5 September 2023**

Candidates who have confirmed their admission by paying the first installment course fee are required to pay the balance course fee on or before 5 September 2023. The second (final) installment amount + GST on it as applicable in August/September 2023 can only be paid through NEFT. The various steps for NEFT payment are explained in the section **Payment of Course Fee** of this Admission Booklet.

(n)	**Last Date of Uploading of Eligibility Certificates and Registration of Students**	**6 September 2023**

Upon payment of full fees and proving the course eligibility, the selected candidates will be enrolled as C-DAC students at their respective allocated training centres. Candidates need to fill up and submit course registration forms online during registration. They are required to upload their passport-size colour photographs and qualifying degree certificate or provisional/passing certificate from the university.

Candidates who do not have their qualifying degree certificate (including candidates who have appeared for the qualifying examination and awaiting results) will be given provisional admission on submitting the proof that they have already appeared for all the examinations of their qualifying degree at the time of registration. These students will have to submit (at the admitted centre) the proof of having passed the qualifying degree with the required minimum marks by 31 December 2023 to confirm their admission.

Important Note: Candidates who are provisionally admitted as C-DAC students but are unable to produce the proof of qualification by 31 December 2023 will have their admissions cancelled. They will not be eligible for any refund of fees.

(o)	**Commencement of PG Diploma Courses across India**	**8 September 2023**

Classes for the September 2023 batch of all the PG Diploma courses at all training centres of C-DAC will begin on 8 September 2023 in online/physical mode as per the courses/centres allocated to the students.

Candidates/students wishing to withdraw their admission during any stage of the admission process or course delivery must follow the guidelines mentioned in the section **Cancellation & Refund**. Penalties levied on such candidates/students are also explained in this section.

Requests of students to relocate to another centre after taking admission at one centre may not be entertained except in certain exceptional cases. Such request letters along with valid certificates/proofs are to be addressed to the head of the allocated/admitted training centre. Depending on the seriousness of the applications, C-DAC shall take an appropriate decision on the transfer request. Even in all such exceptional cases, C-CAT ranking will be strictly followed.

If this transfer is to a course with higher fees, the difference in amount of fees is to be paid by the candidate. However if the transfer is to a course with lower fees, no part of the fees will be refunded by C-DAC.

Important Notes:

(i) C-DAC reserves the right to cancel a course at any centre, if conducting the course is not viable due to any reasons. If a course is cancelled by C-DAC, the fees paid will be refunded to the candidates or alternate admission will be offered as per their ranks.

(ii) C-DAC has the right to cancel, at any stage, the admission of any candidate who is found to have been admitted to a course to which he/she is not entitled, being unqualified or ineligible in accordance with the rules and regulations in force.

Open Day: After all the three rounds of seat allocations, an Open Day may be conducted for some C-DAC centres that still have good number of vacant seats. Open Day seat allocations will also be considered based on candidates' C-CAT rank.

17. Details of PG Diploma Courses

17.1 Post Graduate Diploma in Advanced Computing (PG-DAC)

PG-DAC is the most popular PG Diploma course of C-DAC. The course is targeted towards engineering graduates and MCA/MSc who wish to venture into the domain of advanced computing. The course aims to groom the students to enable them to work on current technology scenarios as well as prepare them to keep pace with the changing face of technology and the requirements of the growing IT industry. The entire course syllabus, courseware, teaching methodology and the course delivery have been derived from the rich research and development background of C-DAC. Running successfully for 25 years, the PG-DAC course has produced thousands of professionals, who are well positioned in the industry today. The major modules covered in PG-DAC are:

- Operating System Concepts
- C++ Programming
- Object Oriented Programming in Java
- Algorithms & Data Structures
- Database Technologies
- Software Development Methodologies
- Web Programming Technologies
- Web-based Java Programming
- Microsoft .Net Technologies
- Aptitude & Effective Communication
- Software Project

17.2 PG Diploma in Big Data Analytics (PG-DBDA)

PG-DBDA will educate the aspirants who want to make an impact in the corporate and academic world in the domain of big data analytics as data scientist and researcher, big data leads/administrators/managers, business analysts and data visualization specialists. The course is also suitable for those who are already working in analytics to enhance their theoretical and conceptual knowledge as well as those with analytical aptitude and would like to start career in big data analytics in different business sectors. The collaboration with the different multi-national companies at the level of mutual research interests and customer related projects will ease the path for campus recruitment. The students will be able to work with big data platform, analyze various big data analysis techniques for useful business applications, design efficient algorithms for mining the data from large volumes, analyze the HADOOP and Map Reduce technologies associated with big data analytics, and explore big data applications. Modules covered in PG-DBDA are:

- Linux Programming and Cloud Computing
- Python and R programming
- Object Oriented Programming with Java 8
- Advanced Analytics using Statistics
- Data Collection and DBMS (Principles, Tools & Platforms)
- Big Data Technologies
- Data Visualization - Analysis and Reporting
- Practical Machine Learning
- Aptitude & Effective Communication
- Project

17.3 Post Graduate Diploma in Embedded Systems Design (PG-DESD)

Realizing the growth of embedded systems in day-to-day life and the need for trained manpower in this promising area, C-DAC launched PG-DESD for engineers in Computers, Electronics and IT. Embedded Systems is a unique field, where engineers need to have sound knowledge in hardware and software design. Keeping this aspect in view, C-DAC has designed this course giving equal emphasis to hardware and software, enabling engineers to face challenges in the design and development of state-of-the-art embedded systems. The latest curriculum includes a module on Internet of Things (IoT), specifically focusing on IoT architectures, applications, standards and protocols. The major modules covered in PG-DESD are:

- Embedded Systems Concepts, Design and Tools
- Embedded C Programming
- Data Structures and Algorithms
- Microcontroller Programming and Interfacing
- Embedded Operating Systems
- Embedded Linux Device Drivers
- Real-Time Operating Systems
- Internet of Things (IoT)
- Aptitude & Effective Communication
- Project and Seminar

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

PG-DITISS is targeted towards grooming students in the arena of human-computer interaction and cyber and network security. The objective of this course is to enable the students to understand the concepts of network security and learn the techniques of detecting the attacks and securing a network from internal and external attacks. At the end of the course, the student will be able to recognise a variety of generic security threats and vulnerabilities, understand the principles and practices of cryptographic techniques, identify and analyze particular security problems for a given application and apply appropriate security techniques to solve the security issues. The major modules covered in PG-DITISS are:

- Fundamental of Computer Networks
- Concepts of Operating System and Administration
- Security Concepts
- Network Defense and Countermeasures
- Compliance Audit
- Cyber Forensics
- Public Key Infrastructures
- IT Infrastructure Management & DevOps
- Aptitude & Effective Communication
- Project

17.5 Post Graduate Diploma in Artificial Intelligence (PG-DAI)

The objective of the PG-DAI course is to present in-depth knowledge and applications in Artificial Intelligence using tools and case studies. Upon completion of this course, participants will be empowered to use computational techniques in the area of Artificial Intelligence, Natural Language Processing, Machine Learning and Deep Learning based applications. The major modules covered in PG-DAI are:

- Mathematics for Artificial Intelligence
- Advanced Programming using Python & R
- Java Programming
- Data Analytics
- Fundamentals of Artificial Intelligence
- Practical Machine Learning
- Deep Neural Networks
- Natural Language Processing & Computer Vision
- AI Compute Platforms, Applications & Trends
- Aptitude & Effective Communication
- Project

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

This course will enable the students to utilize various embedded technologies related to IoT, Sensor Networks, Communication Protocols, Cloud Computing, Accessing Resources

and Services needed to perform functions with dynamically changing needs. It will also help to understand the IoT privacy and security concepts for secured IoT environment and to utilize the various IoT platforms to explore real time IoT application areas. After the course, students will be able to explore modern IoT trends and to undertake industrial research projects for the development of future solutions in the domain of Data Analytics to make an impact in the technological advancement. They will be able to use advanced IoT Tools/ Decision-Making Tools/ Operation Research Techniques to analyze the complex problems and get ready to develop such new techniques for the future. Modules covered in PG-DIoT are:

- Introduction to IoT and IoT Case Studies
- Programming Technologies
- Microcontroller Programming
- Embedded Linux Platform
- Network Programming and Wireless Technologies
- Data Management and Analytics
- IoT Protocols
- Edge and Cloud Computing
- IoT Security
- Aptitude & Effective Communication
- Project

17.7 Post Graduate Diploma in VLSI Design (PG-DVLSI)

PG-DVLSI is a pioneering course offered by C-DAC to assist engineers who wish to gain theoretical as well as practical knowledge in the field of Very Large Scale Integration (VLSI) design. It will also prepare them to keep pace with the changing trends of VLSI technology and the requirements of an ever-growing VLSI design industry. The entire course syllabus, courseware, teaching methodology and the course delivery have been derived from the rich research and development background of C-DAC, which has a legacy of designing the PARAM range of supercomputers. The major modules covered in PG-DVLSI are:

- Advanced Digital Design
- System Architecture
- Linux Shell Scripting & Python
- Verilog HDL
- HDL Simulation and Synthesis
- Programming Fundamentals for Design and Verification
- System Verilog
- Verification using UVM
- CMOS VLSI and Aspect of ASIC Design
- Aptitude & Effective Communication
- Project

17.8 Post Graduate Diploma in Mobile Computing (PG-DMC)

PG-DMC is targeted towards electronics/computer sciences/IT engineers who wish to venture into the domain of mobile computing. The course aims to groom the students to enable them to work on current technology scenarios as well as prepare them to keep pace with the changing face of technology and requirements of an exponentially growing mobile industry. The entire course syllabus, courseware, teaching methodology and the course delivery have been derived from the rich research and development background of C-DAC. The major modules covered in PG-DMC are:

- OS concepts and Linux Programming
- Introduction to DBMS
- OOPs with Java Programming
- Algorithms and Data Structure
- Java Programming-II (Advanced Java)
- Mobile Programming
- Hybrid Mobile Apps Programming
- Aptitude & Effective Communication
- Project

17.9 Post Graduate Diploma in Advanced Secure Software Development (PG-DASSD)

In today's scenario, cyber security threats are majorly addressed reactively; but by following proper software security practices we can minimize attacks and address this problem proactively. PG-DASSD course focuses on security requirements for modern software development with equal emphasis on programming foundations to make the students suitable to work in IT industry from day one. The course gives special emphasis to the emerging technology such as machine learning, and their use cases in cyber security. Objective of the course is to make students strong in programming basics, software security, current & emerging technology trends and prepare them to be on par with the changing technologies and the requirements of IT industry. The major modules covered in PG-DASSD are:

- Secure Programming & Secure SDLC
- Data Structures & Algorithms
- Linux System Programming
- Cryptography & Network Security Essentials
- Software Security
- Secure Network Programming
- Secure Java Programming
- Secure Android Programming & Analysis
- Python and Machine Learning for Cyber Security
- Aptitude & Effective Communication
- Project & Seminar

17.10 Post Graduate Diploma in Geoinformatics (PG-DGi)

Geoinformatics or Geomatics is the synergy of multiple disciplines, namely, GIS, remote sensing, photogrammetry, cartography, GPS and geodesy. It is fundamental to all the disciplines that use data identified by their locations. PG-DGi aims to provide conceptual knowledge on GIS, remote sensing and related fields, and hands-on training in GIS, satellite data interpretation, digital image processing, digital photogrammetry, digital cartography and GPS. There are also three electives, i.e., GIS Development, RDBMS and Geomatics Business & Project Management. Application of Geoinformatics in various development contexts are analysed through appropriate case studies. The course contents have been designed keeping in view the emerging trends in the field of Geoinformatics and the increasing needs of skilled manpower. Subjects covered in PG-DGi are:

- Geographic Information Systems (GIS)
- Global Positioning Systems (GPS)
- Remote Sensing& Advanced Remote Sensing
- Digital Image Processing
- Geospatial Programming (IT Domain)
- Geospatial Programming (GIS Domain)
- Spatial Analysis (Geostatistics with R)
- Latest Trends in Geoinformatics
- RS & GIS Applications
- Aptitude and Effective Communication
- Project & Seminar

17.11 Post Graduate Diploma in Robotics & Allied Technologies (PG-DRAT)

Robotics is one of the growing inter-disciplinary fields of study that involves an understanding of varied domains. Becoming a true roboticist involves the sound knowledge of domains widely ranging from computer science, mechanical engineering, electronics, communications, design, ethical measures and several others. PG-DRAT addresses all these needs so as to equip the students with the necessary tools and techniques to be able to develop efficient, robust and industry standard robots, through state-of-the-art robotic algorithms, hands-on programming, systems development techniques, machine learning, kinematics, dynamics, workspace analysis, mission motion planning etc. The major modules covered in PG-DRAT are:

- Mechanical Design
- Electrical Design
- Programming Concepts
- Electronics Design: Sensor and Actuator Interface-
- Robot Operation System (ROS)
- Mission and Motion Planning
- AI/ML Based robotic vision
- Aptitude & Effective Communication
- Project and Seminar

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

PG-DHPCSA will educate the aspirants who want to make an impact in the corporate and academic world in the domain of High Performance Computing system administration as System Administrator, Storage Administrator and IT Infrastructure Specialist. The course is also suitable for those who are already working in HPC administration domain to enhance their theoretical and conceptual knowledge as well as those who would like to start career in HPC administration. The collaboration with the different multi-national companies at the level of mutual research interests and customer related projects will ease the path for campus recruitment. At the end of the course the students will be able to manage HPC infrastructure like network, storage, resource and backup management, efficiently design data center, maintain the HADOOP cluster and map reduce technology, explore on HPC applications and solutions, and understand the fundamentals of various cloud techniques and system security. Modules covered in PG-DHPCSA are:

- Computer Architecture
- Linux Operating System and Perl
- HPC System Administration and Management
- Python Programming
- Fundamentals of Computer Network and Management
- Storage and Backup Management
- Resource Management and Accounting
- Security and Traffic Management
- Hadoop Administration
- Cloud Services and Security
- Aptitude and Effective Communication
- Project

17.13 Post Graduate Diploma in FinTech & Blockchain Development (PG-DFBD)

PG-DFBD will equip students with the skill set to completely decode the FinTech and Blockchain puzzle, imparting fundamental clarity on the required components, and will provide a strong understanding of the Blockchain and FinTech technologies involved along with their applications/business as is being seen in the current scenario. The course will systematically take candidates through the latest technologies of Blockchain, FinTech development, Artificial Intelligence/Machine Learning (AI/ML) in FinTech and Policy, Risks and standards associated with it that are becoming the hallmark of advanced business applications. Major modules covered in the PG-DFBD are:

- Introduction to FinTech and Applications
- Secure Programming and Software Development for FinTech
- MERN Stack for FinTech
- Programming for FinTech and Blockchain
- Cyber Security for Blockchain
- Blockchain Platforms and Applications

- Business Analytics and AI/ML for FinTech Applications
- DevOps and Challenges in FinTech & Blockchain
- Aptitude and Effective Communication
- Project

17.14 Post Graduate Diploma in Cyber Security & Forensics (PG-DCSF)

The threats of cyber-attacks are increasingly apparent to individuals and organizations across the globe. The PG-DCSF course is beneficial to engineers and cyber security practitioners to develop expertise in defensive cyber security, application security, ethical hacking, cyber forensics etc. It will enable learners to gain knowledge and skills in a series of advanced and current concepts in cyber security and forensics. After completion of this course, students will be equipped with comprehensive understanding of the security controls, network security, traffic analysis, packet analysis, cyber forensics, vulnerability analysis and penetration testing, etc. The entire course syllabus, course-ware, teaching methodology and the course delivery have been derived from the rich research and development background of C-DAC. The depth and width of the course is unique in the industry covering a wide spectrum of requirements of the cyber security domain.

- Linux/Windows Server Administration
- Network Essentials
- Ethical Hacking
- Python Programming
- Cyber Forensics
- Penetration Testing and Incident Response
- Secure Programming
- Security Operations and Management
- Aptitude and Effective Communication
- Project

18. Laptop/Desktop Configuration & Software Requirements for Online Classes

18.1 PG Diploma in Advanced Computing (PG-DAC)

Client Machine (Desktop/Laptop)	
Processor : Intel Core i3 or above	
Memory : 8 GB RAM or above	
Hard Disk : 500 GB	
Video Card : Intel Integrated Graphics	
Network : Ethernet / WiFi with 25 Mbps Speed Connection (UL/DL)	
Accessories : Web Camera, Headphone with Mic	
Module Name	**Software**
All Modules	Windows 10/ Linux Cent OS 6.4/ Fedora 8.0/ Ubuntu 64 bit or latest version Open/Microsoft Office Mozilla/Chrome latest version
Operating System Concepts	GCC, Secure Shell, VM Editor
C++ Programming	MS Visual Studio
Algorithms & Data Structures	JDK 11 or latest version, Eclipse latest version, Apache Tomcat 8.0 or latest version
Objected Oriented Programming with Java	
Web-based Java Programming	
Database Technologies	MySQL 5.7 or latest version, MongoDB
Web Programming Technologies	Visual Studio Code latest version, XAMPP
MS.Net Technologies	MS Visual Studio
Software Development Methodologies	Star UML, Jenkins, Docker, Postman

18.2 PG-Diploma in Big Data Analytics (PG-DBDA)

Client Machine (Desktop/Laptop)
Processor : Intel Core i5 or above
Memory : 8 GB RAM or above
Hard Disk : 500 GB
Video Card : Intel Integrated Graphics (suggested – 4 GB graphics card - NVIDEA)
Network : Ethernet / WiFi with 25 Mbps Speed Connection (UL/DL)
Accessories : Web Camera, Headphone with Mic

Module Name	Software
All Modules	Linux Cent OS 6.4/ Fedora 8.0/ Ubuntu 64 bit or latest version Mozilla/Chrome latest version Open Office
Linux Programming & Cloud	Virtual Box, latest Linux Image
Python and R programming	Python 3.3.4, Sypder IDE, R Packages, R Studio
Object Oriented Programming with Java 8	Eclipse IDE or Netbeans, Spring Tool Suite
Practical Machine Learning	Python IDE, sklearn, seaborn, matplotlib, TensorFlow, pytorch
Advanced Analytics using Statistics	Pandas, Numpy, Scipy, Scrapy, Plotly, Beautiful Soup, R Packages
Data Collection and DBMS	Oracle Database , MongoDB
Big Data Technologies	Hadoop tar, Spark, Hive, HBASE, Airflow
Data Visualization	Tableau, MS Excel

18.3 [PG Diploma in Artificial Intelligence (PG-DAI)](#)

Client Machine (Desktop/Laptop)
Processor : Intel Core i5 or above
Memory : 8 GB RAM or above
Hard Disk : 500 GB
Video Card : 4 GB Graphics Card (NVIDIA GeForce GTX10 series or above)
Network : Ethernet / WiFi with 25 Mbps Speed Connection (UL /DL)
Accessories : Web Camera, Headphone with Mic

Module Name	Software
All Modules	Linux Cent OS 6.4/ Fedora 8.0/ Ubuntu 64 bit or latest version Mozilla/Chrome latest version Open Office
Fundamentals of AI	spider IDE, Jupiter notebook
Advanced Programming using Python	Python 3.6, Numpy, Scipy & Pandas
Mathematics for AI	Python 3.6, Numpy, Scipy & Pandas
Java Programming	Eclipse IDE or Netbeans, Spring Tool Suite
Practical Machine Learning	ScikitLearn, SEABorn, matplotlib, TensorFlow, pyTorch, Keras
Natural Language Processing & Computer Vision	OpenCV, NLTK, spaCy
Deep Neural Networks	Google Colab

Data Analytics	Python 3.6
AI Compute Platforms, Applications & Trends	Spark 2.x, spyder IDE

18.4 **PG Diploma in Geoinformatics (PG-DGi)**

Client Machine (Desktop/Laptop)	
Processor : Intel Core i3 or above	
Memory : 8 GB RAM or above	
Hard Disk : 500 GB	
Video Card : Intel Integrated Graphics	
Network : Ethernet / WiFi with 25 Mbps Speed Connection (UL/DL)	
Accessories : Web Camera, Headphone with Mic	
Module Name	*Software*
All Modules	Windows 10/ Linux Cent OS 6.4 ; Microsoft Office, Mozilla/Chrome latest version
Geographic information system and Global Positioning system	Arc GIS, QGIS
Remote sensing	ERDAS IMAGINE
Digital Image Processing	ERDAS IMAGINE
Geospatial Programming (IT Domain)	MySQL 5.7 or latest version, Python 3.3.4, Eclipse IDE or Netbeans
Geospatial Programming (GIS Domain)	Python 3.3.4, PostGIS, PostgresSQL
Geostatistics with R and Spatial Analysis	R Packages, R Studio

18.5 **PG Diploma in Robotics & Allied Technologies (PG-DRAT)**

Client Machine (Desktop/Laptop)	
Processor : Intel Core i5 or above	
Graphics Card: NVIDIA® GeForce® with 2GB graphics memory	
Memory : 16 GB DDR4RAM x1, 3200 MHz or above	
Hard Disk : 512 GB Solid State Drive, 1TB HDD	
GPU : Intel Integrated GPU core	
Network : Ethernet /WiFiwith 25Mbps Speed Connection (UL/DL)	
*Accessories :*Web Camera, Headphone with Mic	
Module Name	*Software*
All Modules	Ubuntu 18.04 / 20.04 and Windows 10 Open Office
Introduction to Robots and Robotics	Python, C, C++, Microcontroller Programming(vm lab, KeiluVision)

Mechanical and Electrical Design	AutoCAD, FEA, 3D Modelling, FEAST
Controller , Sensors and Actuator Interface	C, C++
Mission and Motion Planning	Octave Gazebo
Robotic Operating System	ROS
AI/ML/Robotic Vision	TensorFlow, Keras, CUDA, Jupyter Notebooks Google Colab OpenCV, PyTorch

Hardware Kit to be purchased by the students of PG-DRAT course in consultation with C-DAC Kolkata (Total estimated cost – Approximately Rs. 10,000/-):

- STMicroelectronics Discovery MCU Development Kit STM32F407G-DISC1, or any equivalent kit (for ARM module)
- Raspberry Pi or Beagle bone black kit or any equivalent kit (for Linux Device Driver module)
- USB TO UART TTL 5V 3.3V FT232RL Download Cable To Serial Adapter Module 2 PCS (for ARM module)
- Sensor Module Kit.
- Navigation module-Base and Rover pair ZED -F9P, uBlox F9 receiver platform
- Communication module – Long Range Wi-Fi Module, Zigbee, UART
- BLDC, Steering Motor Kit
- Battery
- Serial and Parallel Manipulator
- Various Types of Gripper
- Tracked Vehicle
- Humanoid Platform
- Wheeled Platform

18.6 PG Diploma in FinTech & Blockchain Development (PG-DFBD)

Client Machine (Desktop/Laptop)	
Processor: Intel Core i5 or above	
Memory: 8 GB RAM or above	
Hard Disk : 500 GB	
Video Card : 4 GB Graphics Card (NVIDIA GeForce GTX10 series or above)	
Network: Ethernet / WiFi with 25 Mbps Speed Connection (UL /DL)	
Accessories: Web Camera, Headphone with Mic	
Module Name	**Software**
All Modules	Latest versions of : • Fedora / Ubuntu 64 bit • Open Office • Mozilla/Chrome latest version

Introduction to FinTech and Applications	------
Secure Programming and Software Development for FinTech	JDK, IDE(Netbeans, Eclipse, VS Code), Git, docker, kubectl, kind,minikube,kubeadm, cURL
Programming for FinTech and Blockchain	Android SDK, node, npm, solcjs, Truffle or Hardhat, ganache, VS Code,
Cryptography and PKI	GCC, spider IDE, Jupiter notebook, openCA
MERN Stack for FinTech	Node, VS Code, mongo, mongoose, Npm or Yarn(react, express)
Introduction to Blockchain and Applications	Node, Npm, geth, VS Code, Docker, Git, cURL, Go
Business Analytics and AI/ML for FinTech Applications	spider IDE, Jupiter notebook
Policy, Risk, and Challenges in FinTech & Blockchain	-----

18.7 PG Diploma in Cyber Security & Forensics (PG-DCSF)

Client Machine (Desktop/Laptop)	
Processor : Intel Core i5 or above	
Memory : 8 GB RAM or above (16 GB recommended)	
Hard Disk : 500 GB (minimum) (1 TB recommended)	
Video Card : Intel Integrated Graphics	
Virtualization: VT-x/Vx must be ENABLED in BIOS	
Network : Ethernet / WiFi with 25 Mbps Speed Connection (UL/DL)	
Accessories : Web Camera, Headphone with Mic	
Module Name	*Software*
All Modules	Windows 10/ Linux Cent OS 7.2/ Ubuntu 64 bit or latest version ; Open/Microsoft Office Mozilla/Chrome latest version
Linux/Windows Server Administration	VirtualBox, CENTOS 7.2, Windows 2019
Network Essentials	GNS
Ethical Hacking	Nmap, Zenmap, Nikto, Nessus, Metasploit, Wireshark, Maltego, SQLMap, Burp Suite, WebInspect, Hashcat
Python Programming	Python 3.9, Sypder IDE, Jupyter Notebook
Cyber Forensics	TSK, Autospy, WinHex, FTK Imager, LiME, Helix, OSForensics, Volatility, DB Browser for SQLite, IDA Pro, dex2jar, apktool, adb, Android Studio
Pentesting and Incident Response	Netsparker, Acunetix, Metasploit, Wireshark, w3af, Kali Linux, Nessus, Zed Attack Proxy, Retina, Sqlmap, Canvas, BEEF
Secure Programming	Metasploit Framework, Juice Shop, Wapiti, SonarQube
Security Operations and Management	Splunk, SolarWinds Security Event Manager

19. Address and Contact Details of C-DAC Training Centres where PG Diploma Courses are offered

All support landline and mobile numbers given below are available between 10 am - 1 pm and 2 pm - 5 pm on working days. Candidates are advised to write their queries and requests to the below given email address from their registered email, with details such as their name and C-CAT Form No, without which C-DAC may not be able to respond to these candidates.

Centre & City	Address	Contact Person	Email & Telephone No.
C-DAC Bengaluru	No. 68, 4th Cross, Electronics City Phase 1, Hosur Road, Opp. BSNL Tel Exchange, Bengaluru 560100	Mr. Arun Kumar	actsb@cdac.in 080-28523300
C-DAC Chennai	TIDEL Park, 8th Floor, D Block (North), No.4, Rajiv Gandhi Salai, Taramani, Chennai 600113	Ms. Sunandha D	chnacts@cdac.in 044-22542226 / 22542227 / 22542273
C-DAC Hyderabad	Plot No. 6 & 7, Hardware Park, Survey No 1/1, Srisailam Highway, Hyderabad 501510	Mr. BSRK Varaprasad	bsrkvprasad@cdac.in training-hyd@cdac.in 040-29564857, 7382053731 / 2
C-DAC Kochi	STDC, 40/8147, 2nd Floor, Narakathara Road, Near Shenoy Theatre, Kochi, Kerala 682035	Ms. Sunitha CS	stdckochi@cdac.in 0484-2372422 9447247984
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