DAC Post Graduate Diploma in Advanced Computing

Core Modules: Java, Spring, WPT, React ,C#, ASP.Net, C++, DBMS, Cloud

PG-DAC, the flagship Post Graduate Diploma course of C-DAC is targeted towards Engineering Graduates, Post Graduates in Computer Applications /Computer Science and the like, who wish to venture into the domain of advanced computing.

Course Highlights

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

Course Modules

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

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DASD

Post Graduate Diploma in

Advanced Secure Software Development

Core Modules: SDLC, Cryptography, Software Security, Android, Java, SNP, Python & ML

The PG-DASSD course is dedicated to addressing security needs in contemporary software development, offering a balanced focus on programming fundamentals, and emerging technologies like machine learning & cyber security.

Course Highlights

- Well established courses with excellent placement records.
- 24-week full-time courses with 900 hours' theory + lab + project.
- 6-8 hours per day theory + lab sessions on 6 days a week in most centres.
- Continuous lab and internal assessments during the course.
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- 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.

Course Modules

- C and Data Structures
- Object Oriented Programming using C++
- Linux System Programming
- Cryptography & Network Security
- Secure Web Application Development
- Secure Software Engineering
- AI for Cyber Security
- Project and Seminar
- Aptitude & Effective Communication

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DMC

Post Graduate Diploma in

Mobile Computing

Core Modules: iOS, Android, Kotlin, Java, Spring, ReactJS, React Native, NodeJS

PG-DMC course is oriented towards the ever-evolving domain of mobile computing. This course equips the participants with the required skill-sets to kick-start a career in the areas like Native and Hybrid Mobile Application development.

Course Highlights

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

Course Modules

- OS Concepts and Linux Programming
- Introduction to DBMS
- Algorithms and Data Structures
- Object Oriented Programming with Java
- Web-Based Java Programming
- Mobile Programming
- Hybrid Mobile Apps Programming
- AI on Mobile Platforms
- Aptitude & Effective Communication
- Project

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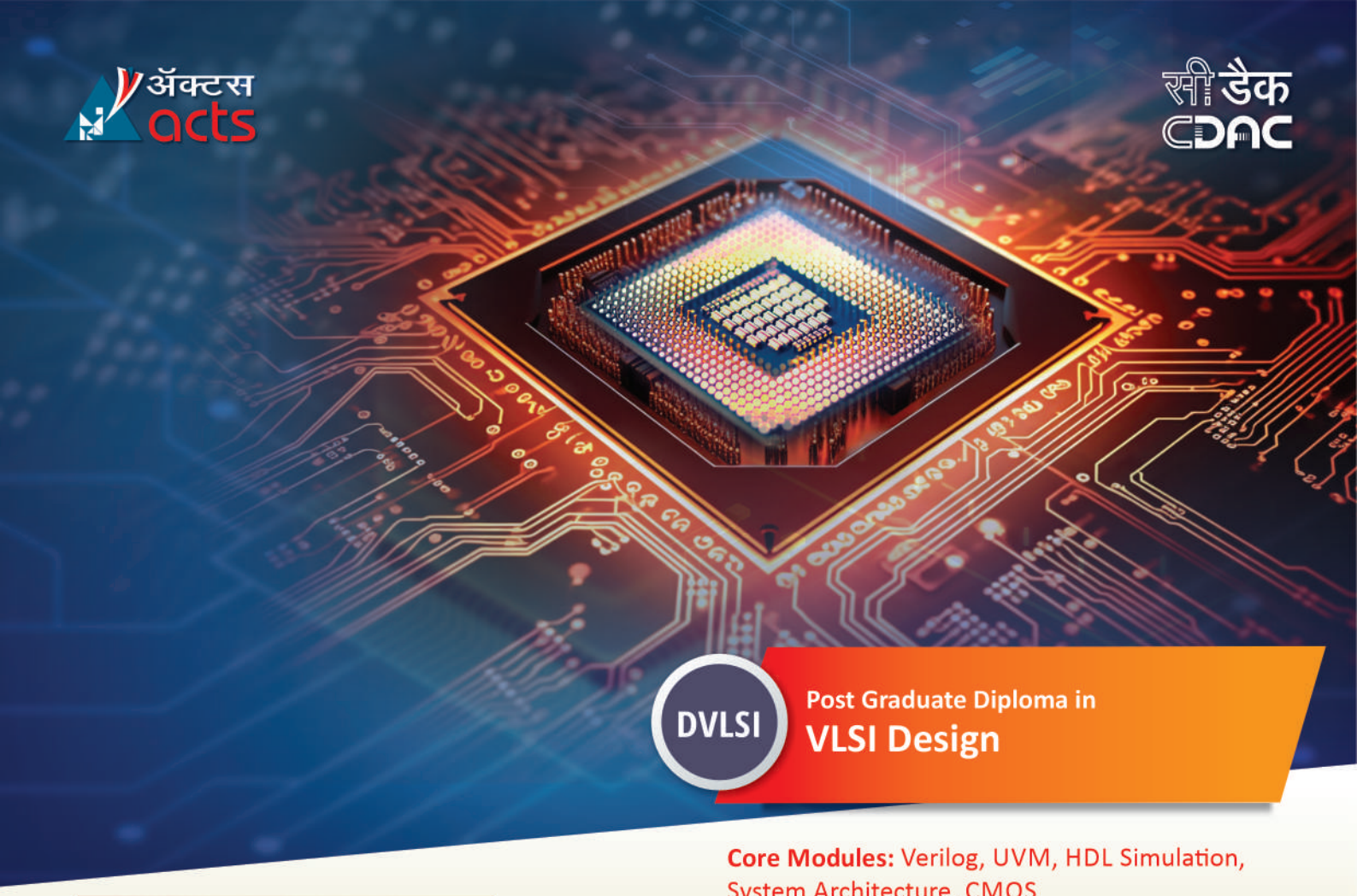

DVLSI

Post Graduate Diploma in

VLSI Design

Core Modules: Verilog, UVM, HDL Simulation, System Architecture, CMOS

Course Highlights

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

PG-DVLSI, a course derived from C-DAC's extensive research and development legacy, imparts knowledge in both theoretical and practical aspects of Very Large-Scale Integration design.

Course Modules

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

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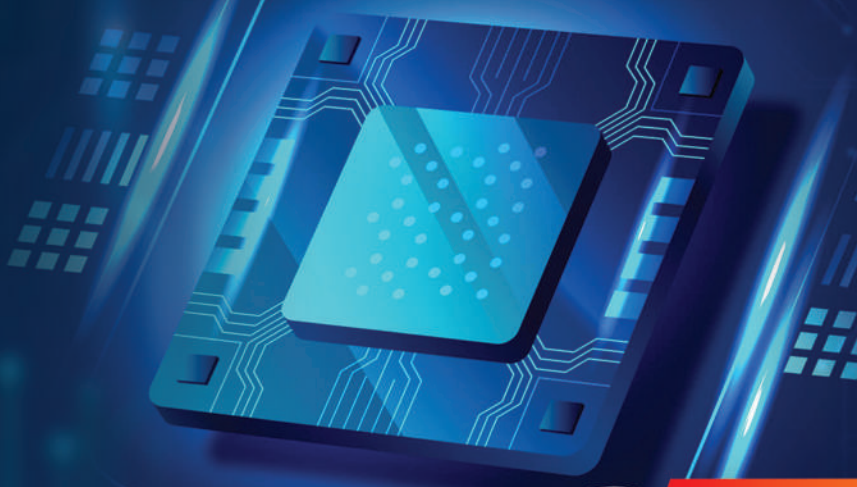

DESD

Post Graduate Diploma in

Embedded Systems and Design

Core Modules: Embedded C, RTOS, STM32, ARM, SPI, UART, CAN, Firmware

Course Highlights

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

The PG-DESD course equips the students with a strong foundation in both theoretical and practical aspects of embedded systems design, preparing them for careers in fields such as automotive systems, consumer electronics, industrial automation etc.

Course Modules

- 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

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DIoT

Post Graduate Diploma in Internet of Things

Core Modules: Protocols, ARM, SPI, UART, CAN, Networking, Raspberry Pi, Cloud Deployment

The objective of the PG-DIoT course is to equip the students with the knowledge and skills necessary to understand, design, and implement solutions within the rapidly evolving field of IoT.

Course Highlights

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

Course Modules

- Introduction to IoT and Case Studies
- Programming Technologies
- Microcontrollers Programming
- Embedded Linux Platforms
- Network Programming & Wireless Technologies
- Database Management
- Web Programming and Java
- IoT Protocols
- Edge and Cloud Computing
- Aptitude & Effective Communication
- Project

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DRAT

Post Graduate Diploma in Robotics & Allied Technologies

Core Modules: CAD, ROS, C & Python, AI/ML, Sensors and Microcontrollers

The PG-DRAT course aims to familiarize the students with the tools and techniques required to develop efficient, robust and industry-standard robots, fostering expertise in various critical areas of robotics.

Course Highlights

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

Course Modules

- 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

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DUASP

Post Graduate Diploma in

Unmanned Aircraft System Programming

Core Modules: UAS, Microcontrollers, Java, Python, DBMS, AI/ML, DNN, GIS

The objective of the PG-DUASP course is to familiarize the students with the concepts and techniques employed in Unmanned Aircraft Systems (UAS) and its diverse applications, thereby preparing the students to design and develop applications for drones.

Course Highlights

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

Course Modules

- Introduction to UAS
- Programming Concepts
- Data Collection and Management
- Data Processing, Analytics and Visualization
- Machine Learning and Reinforcement Learning
- Computer Vision
- Image Processing with Neural Networks
- Introduction to Microcontrollers, Sensors
- and IoT Protocols
- Fundamental Principles for Drone Design
- and Prototyping
- GIS Component for UAS
- Source Control and Hosting Environments
- Aptitude and Effective Communication
- Project

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DAI

Post Graduate Diploma in Artificial Intelligence

Course Highlights

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

Core Modules: AI/ML, NLP, TensorFlow, R, Python, Java, Cloud, PySpark

The PG-DAI course empowers individuals to navigate the realms of AI, equipping them with the expertise needed to engage with advanced technologies and implement solutions in various applications.

Course Modules

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

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DBDA

Post Graduate Diploma in Big Data Analytics

Core Modules: ML, R, Hadoop, PySpark , Tableau, Python, Power BI, Java, Cloud, DBMS

Course Highlights

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

The PG-DBDA course is targeted towards those who wish to acquire advanced knowledge and skills in the area of data analytics within the context of business applications. The course includes training in statistical analysis, machine learning, data visualization, and other relevant techniques for extracting insights from data to support business decision-making.

Course Modules

- Linux Programming and Cloud Computing
- Python and R programming
- Java Programming
- 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

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DHPCSA

Post Graduate Diploma in

HPC System Administration

Core Modules: HPC System Administration, Python, DevOps, Cloud, OS

Course Highlights

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

The PG-DHPCSA course will aid the participants in enhancing their theoretical and conceptual knowledge in the domain of high-performance computing system administration.

Course Modules

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

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Post Graduate Diploma in

IT Infrastructure, Systems and Security

Core Modules: Network Administration, IT Infrastructure & Security, Python, DevOps, Cloud, OS

Course Highlights

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

The objective of the PG-DITISS course is to enable the students to understand the concepts of network security, learn the techniques of detecting the attacks and securing a network from internal & external attacks.

Course Modules

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

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DCSF

Post Graduate Diploma in Cyber Security & Forensics

Core Modules: Cyber Forensics, Ethical Hacking, Python, Pentesting

Course Highlights

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

The PG-DCSF course enables learners to gain knowledge and skills in a series of current and advanced concepts in cyber security and forensics.

Course Modules

- 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

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DFBD

Post Graduate Diploma in

FinTech & Blockchain Development

Core Modules: Blockchain, MERN, Cryptography, Web3

The PG-DFBD course provides a strong understanding of the Blockchain and FinTech technologies along with their applications & current business scenarios.

Course Highlights

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

Course Modules

- Introduction to FinTech and Applications
- Secure Programming and Software Development for FinTech
- MERN Stack for FinTech
- Cryptography and PKI
- Programming for FinTech and Blockchain
- Blockchain Platforms and Applications
- Business Analytics and AI/ML for FinTech Applications
- DevOps and Challenges in FinTech & Blockchain
- Aptitude and Effective Communication
- Project

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