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PG Certificate Programme in Advanced Computing

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

Course Highlights

- Well established courses with excellent placement records.
- 24-week full-time courses with 900 hours' theory + lab + project + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

PGCP-AC, 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 Modules

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

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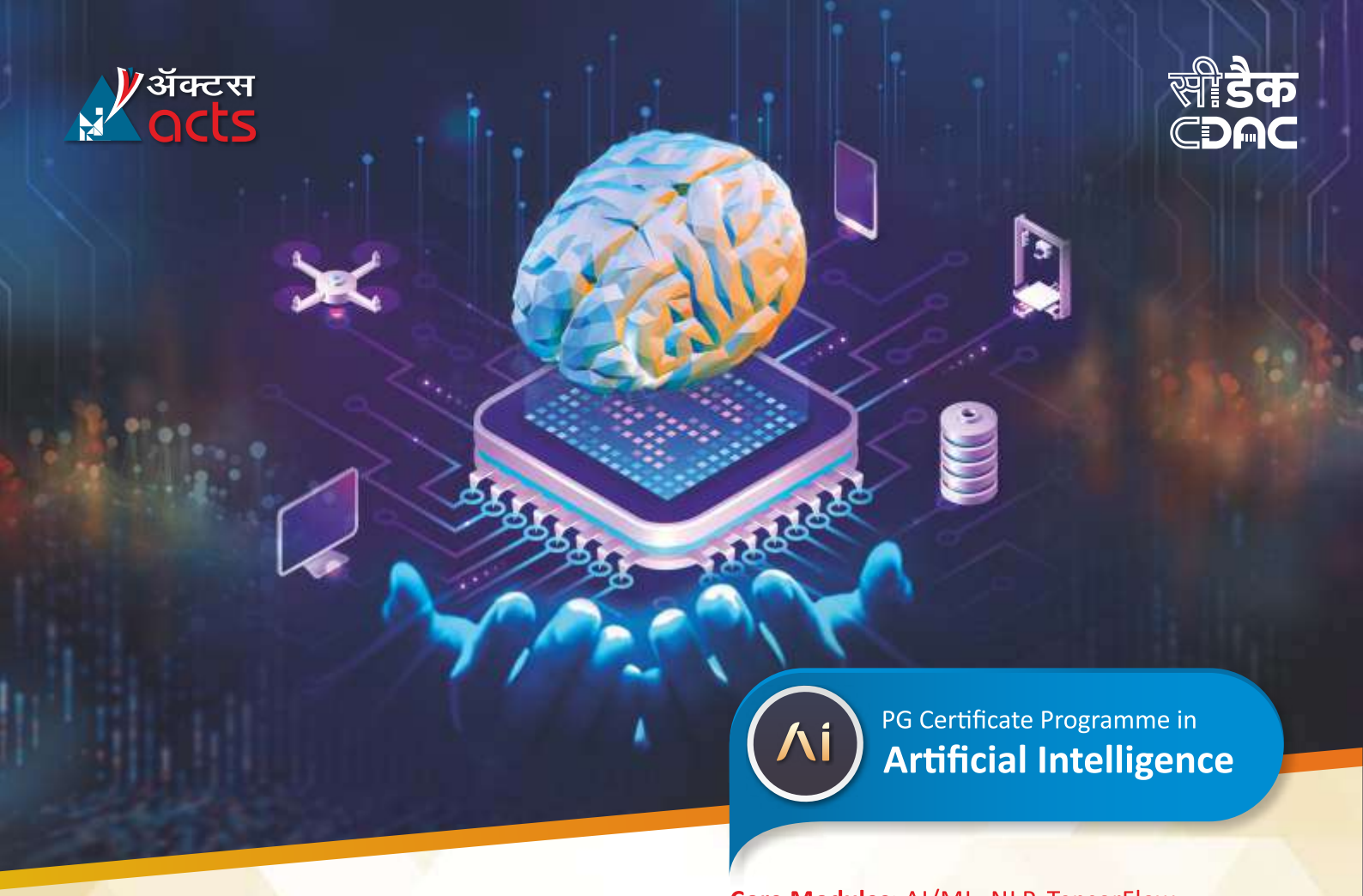

PG Certificate Programme in Artificial Intelligence

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

The PGCP-AI 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 Highlights

- Well established courses with excellent placement records.
- 24-week full-time courses with 900 hours' theory + lab + project + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

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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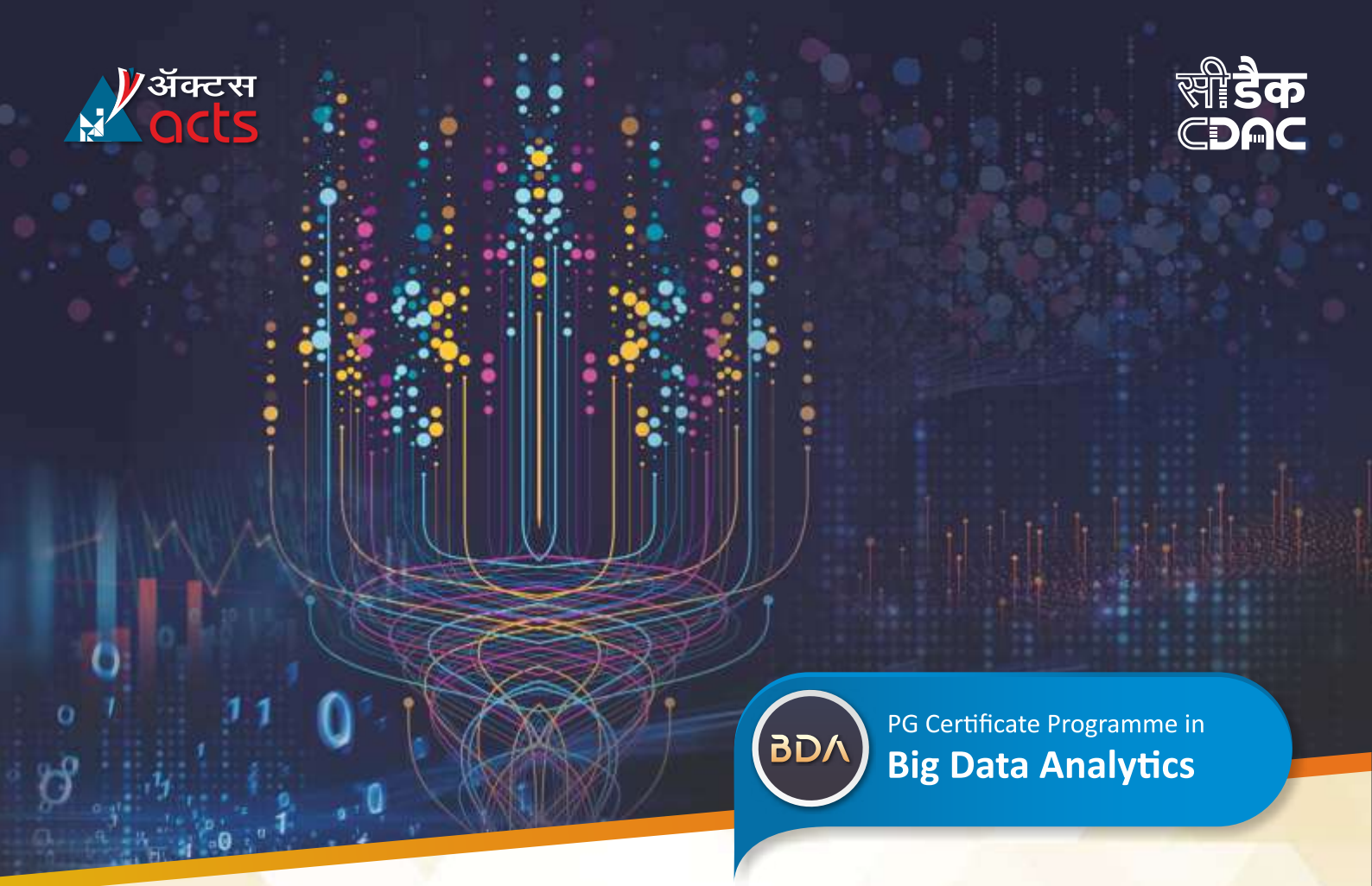

PG Certificate Programme in

Big Data Analytics

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

Course Highlights

- Well established courses with excellent placement records.
- 24-week full-time courses with 900 hours' theory + lab + project + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

The PGCP-BDA 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
- Data Collection and DBMS (Principles, Tools & Platforms)
- Python and R Programming
- Java Programming
- Big Data Technologies
- Advanced Analytics using Statistics
- Practical Machine Learning
- Data Visualization - Analysis and Reporting
- Aptitude & Effective Communication
- Project

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PG Certificate Programme in

VLSI Design

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

PGCP-VLSI, 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 Highlights

- Well established courses with excellent placement records.
- 24-week full-time courses with 900 hours' theory + lab + project + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

Course Modules

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

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PG Certificate Programme in

IT Infrastructure, Systems and Security

Course Highlights

- Well established courses with excellent placement records.
- 24-week full-time courses with 900 hours' theory + lab + project + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

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

The objective of the PGCP-ITISS 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
- Programming Concepts
- Concepts of Operating System and Administration
- Network Defense and Countermeasures (NDC)
- Compliance Audit
- Security Concepts
- Cyber Forensics
- Public Key Infrastructure
- IT Infrastructure Management & DevOps
- Aptitude & Effective Communication
- Project

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PG Certificate Programme in

Embedded Systems 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 + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

The PGCP-ESD 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 Device Driver
- Real-time Operating Systems
- Internet of Things (IoT)
- Aptitude & Effective Communication
- Project

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PG Certificate Programme in

HPC System Administration

Course Highlights

- Well established courses with excellent placement records.
- 24-week full-time courses with 900 hours' theory + lab + project + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

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

The PGCP-HPCSA 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
- Fundamentals of Computer Network and Management
- Python Programming
- Cloud Services & Security
- Hadoop Administration
- Security and Traffic Management
- Resource Management and Accounting
- Storage and Backup Management
- HPC System Administration and Management
- Aptitude and Effective Communication
- Project

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PG Certificate Programme in Cyber Security & Forensics

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

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

Course Highlights

- Well established courses with excellent placement records.
- 24-week full-time courses with 900 hours' theory + lab + project + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

Course Modules

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

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PG Certificate Programme in

Mobile Computing

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

PGCP-MC 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 + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

Course Modules

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

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PG Certificate Programme in

Advanced Secure Software Development

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

The PGCP-ASSD 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 + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

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
- Aptitude & Effective Communication
- Project

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PG Certificate Programme in

Robotics & Allied Technologies

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

The PGCP-RAT 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 + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

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

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PG Certificate Programme in

FBD FinTech & Blockchain Development

Core Modules: Blockchain, MERN, Cryptography, Web3

The PGCP-FBD 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 + 300 hours self study.
- 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 in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

Course Modules

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

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