



B-30, Institutional Area, Sector-62,  
NOIDA – 201 307  
ISO 9001:2008 COMPANY



For information visit  
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## POST GRADUATE DIPLOMA IN INFORMATION SECURITY & APPLICATION DEVELOPMENT

(Under ISEA Project, DIT, MCIT, Govt. of India)

Last date for Online Registration:

**9<sup>th</sup> July 2010**

Date of Entrance Exam:

**17<sup>th</sup> & 18<sup>th</sup> July 2010**

Date of Result Declaration:

**21<sup>st</sup> July 2010**

Last Date of Payment of 1<sup>st</sup> installment of fees for selected candidates: **27<sup>th</sup> July 2010**

Last Date of payment of 1<sup>st</sup> installment of fees for waitlisted candidates: **29<sup>th</sup> July 2010**

Commencement of Course:

**2<sup>nd</sup> August 2010**

### CDAC PROFILE

CDAC, Noida was established with the mandate to undertake and promote State-of-the-Art Scientific Research & Development of electronics and to emerge as a premier R&D institution for the design, development and deployment of world class electronic and IT solutions for economic and human advancement.

The main focus and objective of the organization lies in the development of High skill manpower in various areas of IT industry through HRD activities. CDAC conducts and concentrates on high-end training in Information Technology and other emerging areas at Post Graduate Levels (Formal & Non-formal) which enables to meet the growing demand of IT skilled human resources.

### ABOUT PGDISAD

Post Graduate Diploma in Information Security and Application Development is a one-year programme comprising of modules in Information security and software application development with one major project. It caters to the Human Resource Development in the area of Information security leading to development of indigenous hardware and software capabilities in the area of Information Security.

### **FACILITIES AT CDAC NOIDA :**

State-of-the Art Infrastructure, Well-equipped Library with access to International Journals, WiFi Network, Industry focused curriculum and Course Contents leading to International Certification, Creative cum learning work environment, Active placement cell, Experienced and resourceful faculty, Close and constant contact between faculty and students.

### **ELIGIBILITY CRITERION**

- M.E / M.Tech / B.E. / B. Tech(CS, IT, Electronics, Electronics & Communication, Electronics & Instrumentation, Electrical, Electrical & Electronics) / MCA / MCM (with B.Sc) / B.Sc (Engg.) / AMIE
- M.Sc.(CS, IT, Instrumentation, Electronics, Electronics & Communication) / MBA (IT, Systems).
- Candidates should have minimum 60% in last qualifying degree. Also Candidates should not have less than 60% in more than one of the academic qualifications. Candidate who have less than 50% in any of the qualifications are Not Eligible. Students who have appeared for final semester Examinations are eligible for this course.

### **PLACEMENT CELL**

Co-ordinates the task of organizing Campus Interview for the students just before the completion of the course in order to help them to secure attractive jobs. The candidates should keep in mind that selection will depend on the **selecting criteria and qualitative requirements(Past academic record & Internal Assessment at CDAC, Noida)** of the company and the placement cell has no say on the recruitment policy and process of the company visiting the campus. Partial list of our recruiters: **Dell-Perot Systems, Safenet Infotech, Tech Mahindra, Mindfire Solutions, e-Businessware, Adroit Business Solutions, Samsung India Software Operations Pvt. Ltd., Ericsson etc.**

**TERM – I**

**PROGRAMMING LANGUAGE :**  
**FUNDAMENTALS, PROGRAMMING IN C++,**  
**OPERATING SYSTEM CONCEPTS: Linux Shell Programming**  
**COMPUTER NETWORKS - CCNA Exploration (CCNA1,2,3,4)**

- NETWORK FUNDAMENTALS, ROUTING PROTOCOLS AND CONCEPTS, LAN SWITCHING AND WIRELESS, ACCESSING THE WAN

**WEB TECHNOLOGIES - HTML, DHTML, JAVASCRIPT**  
**CRYPTOGRAPHY**

- PRIVATE AND PUBLIC KEY CRYPTOGRAPHY
- CRYPTANALYSIS, ADVANCED PROTOCOLS

**SOFTWARE ENGINEERING FUNDAMENTALS**

**DATABASE MANAGEMENT SYSTEMS :** Introduction to basic Concepts, SQL, PL/SQL

**MICROSOFT .NET CONCEPTS**

- .NET ARCHITECTURE & FRAMEWORK
- C#, ASP.NET
- DATABASE CONNECTIVITY USING ADO.NET
- WEB SERVICES, .NET Remoting, Localization
- AJAX

**REDHAT ENTERPRISE LINUX – 5**

- ESSENTIALS – RH033
- SYSTEM ADMINISTRATION - RH133
- NETWORK & SECURITY - RH253

**TERM - II**

**PROGRAMMING IN JAVA**

- CORE JAVA: Introduction to JVM, Classes & Objects, Inheritance, AWT, Event Handling, Multi Threading, Java Packages & Collections, Java I/O, Java Applets, Java Foundation Classes (JFC)
- J2EE: JDBC, SERVLETS, JSP, RMI, EJB, STRUTS FRAMEWORK

**OPEN SOURCE TECHNOLOGIES**

- PHP
- MYSQL

**APTITUDE SKILLS & PERSONALITY DEVELOPMENT**

**DATA STRUCTURES USING C++**

**SYSTEM SECURITY**

- OS SECURITY
- PROGRAM FLAWS
- BUFFER OVERFLOWS, RACE CONDITION
- MALICIOUS CODE, SECURE E-MAIL SYSTEMS
- AUTHENTICATION AND AUTHORISATION
  - SMART CARDS, KERBEROS

**NETWORK SECURITY**

- PKI, TYPES OF ATTACKS
- SECURITY PROTOCOLS
- FIREWALLS AND PACKET FILTERING, VIRTUAL PRIVATE NETWORK

**WIRELESS SECURITY**

- BLUETOOTH SECURITY
- MOBILE SECURITY, MOBILE APPLICATION SECURITY

**PROJECT WORK (Eight Weeks)**

**SUBMISSION OF APPLICATION & ENTRANCE EXAMINATION**

For submission of Application Form, visit website [www.cdacnoida.in](http://www.cdacnoida.in). Registration for the course would be done **ONLINE**. Candidate should also send the print out of the application form along with the self-attested photocopies of certificates/ mark sheets and DD (if mode of payment is DD) so as to reach the below mentioned address on or before 14<sup>th</sup> July 2010. Last date of Online Registration is 9<sup>th</sup> July 2010. It is advised to read the General Instructions carefully before filling up the Application Form. Registration Fee is Rs. 300/-. Fee can be paid through DD or Credit Card only. DD should be in favor of CDAC, Noida payable at NOIDA and must be dated 9<sup>th</sup> July 2010 or earlier. A candidate can apply for one or more than one course. **Payment for each course has to be done separately**. If payment is made through Credit Card then candidate shall be redirected to Payment Gateway of ICICI Bank by S/W wherein candidate can fill necessary details to complete the registration. There will be an Online Entrance Examination in 4 slots on 17<sup>th</sup> & 18<sup>th</sup> July 2010 at C-DAC, B-30, Institutional Area, Sector – 62, NOIDA. The test would be conducted in 2 hrs slots and would be of Adaptive Type consisting of Multiple Choice Questions based on the following: *DBMS Concepts, Operating Systems, Computer Networks, IT fundamentals, Introduction to Computers, C Language, Programming Fundamentals, OOPS Concepts, General English, Analytical reasoning, Quantitative Aptitude*. For further details please visit [www.cdacnoida.in/FS/pgdisad.asp](http://www.cdacnoida.in/FS/pgdisad.asp)

**REGISTRATION FEES**

Fee for the Course is **Rs. 60,000/-** payable in two installments (**First installment Rs. 30,000/- and Second Rs. 30,000/-**) by Demand Draft in favour of CDAC, NOIDA payable at Noida. First installment of fee is to be deposited by the selected candidates at the time of admission i.e. on or before **27<sup>th</sup> July 2010**. The second installment is to be paid on the first working day of the programme i.e. **2<sup>nd</sup> August 2010**. Course Fee is Non-transferable & Non-refundable. Fee may be refunded with certain conditions only, which will be declared along-with result of the programme. In case, any selected candidate does not pay first installment of fee by **27<sup>th</sup> July 2010**, his seat will be treated as vacant. Such vacant seats will be allotted to candidates in waiting list. Wait listed candidates may contact CDAC, NOIDA at the venue given below on **29<sup>th</sup> July 2010** for allotment of seats on merit basis.