



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



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## POST GRADUATE DIPLOMA IN WIRELESS TECHNOLOGIES & APPLICATIONS

Last date for Online Registration:

**21<sup>st</sup> January 2012**

Date of Entrance Exam:

**28<sup>th</sup> & 29<sup>th</sup> January 2012**

Date of Result Declaration:

**2<sup>nd</sup> February 2012**

Last Date of Payment of 1<sup>st</sup> installment of fees for selected candidates: **9<sup>th</sup> February 2012**

Last Date of payment of 1<sup>st</sup> installment of fees for waitlisted candidates: **10<sup>th</sup> February 2012**

Commencement of Course: **13<sup>th</sup> February 2012**

### CDAC PROFILE

C-DAC, Noida was established with the mandate to undertake and promote State-of-the-Art Scientific Research & Development of electronics, and to design & develop Electronics Equipment and Systems for the growth of Electronics Industry. The main focus and objective of the organization lies in the development of High skill manpower in various platform of IT industry through HRD activities, transiting the goal of Ministry of Information Technology, Government of India, to bring fruits of Information Technology to every walk of life.

C-DAC, Noida conducts and concentrates on high-end training in Information Technology and other emerging related areas at Post Graduate Levels (Formal & Non-formal), which should provide the basis for sustainable growth and high value added employment to multi-talented I.T. personnel.

### PGDWTA - Objectives and Focus Areas

The Post Graduate Diploma in Wireless Technologies and Applications is a six months (24 weeks) full time programme aimed at training Engineers from the field of Electronics/ Electronics & Communications/Electrical/Computer science. The proposed course will focus primarily on Wireless Technologies and developing applications. Course is design to cover fundamentals in programming concept with essential coverage to Networking, Telecommunication & Wireless concepts. It is mapped with the Micro-controller programming to develop applications on Wireless and Mobile Technologies focusing GSM, GPRS, CDMA, WLL, WLAN, WiFi etc. Objective of the programme will be obtained through practical oriented interactive training on the following modules

- Basics of OS and Programming Concepts.
- Basics of Wireless and Communication Network
- Programming with Micro-Controller
- Wireless and Mobile Technologies & Its Applications
- Project Work

### 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

B.E / B.Tech., M.E/ M Tech. or equivalent in Electronics/Electrical/ Electrical & Electronics /Computer/Electronics and Telecommunication/ Instrumentation/ M. Sc (Electronics).

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 also 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 selection criteria and qualitative requirements of the company and the placement cell has no say on the recruitment policy and process of the company visiting the campus. Brief list of companies that visited CDAC, Noida are Wipro, Honey Well, Satyam, Patni Computers NEC-HCL, Cadence, Mentor Graphics, Virage Logic, ST, Tech. Mahindra, UHG, MBT, IBM, Bharti TeleSoft, Samsung, Network Programs, Quark, NetSys Software, PI Softech etc. Candidates of this programme have got 100% placement opportunities in previous years.

## COURSE CONTENTS

MODULE I: BASICS OF OS & PROGRAMMING CONCEPTS	
<ul style="list-style-type: none"> <li>OPERATING SYSTEM</li> <li>SOFTWARE ENGINEERING CONCEPTS</li> <li>LINUX SHELL PROGRAMMING</li> </ul>	<ul style="list-style-type: none"> <li>PROGRAMMING WITH C++ &amp; DATA STRUCTURE</li> <li>PROGRAMMING WITH MOBILE JAVA TECHNOLOGY</li> </ul>
MODULE II: BASICS OF WIRELESS & COMMUNICATION NETWORK	
<ul style="list-style-type: none"> <li>DATA COMMUNICATION AND NETWORKING</li> <li>BASICS OF WIRELESS COMMUNICATIONS</li> <li>ANDROID OS APPLICATION</li> </ul>	<ul style="list-style-type: none"> <li>FUNDAMENTALS OF TELECOMMUNICATIONS</li> <li>BASICS OF RADIO FUNDAMENTALS</li> </ul>
MODULE III: EMBEDDED PROGRAMMING	
<ul style="list-style-type: none"> <li>PROGRAMMING WITH LINUX INTERNALS</li> <li>8-BIT MICROCONTROLLERS AND INTERFACING</li> </ul>	<ul style="list-style-type: none"> <li>PROGRAMMING WITH RTOS : RTLinux</li> <li>Programming with 16/32 BIT ARM CONTROLLER</li> </ul>
MODULE IV: WIRELESS & MOBILE TECHNOLOGIES	
<ul style="list-style-type: none"> <li>UNDERSTANDING GSM &amp; GPRS</li> <li>3G WIRELESS MOBILE COMMUNICATIONS: CDMA</li> <li>UMTS : OSA , NETWORK PROTOCOL, W-CDMA</li> <li>GPS: ARCHITECTURE, RECEIVER, DIFFERENTIAL GPS, APPLICATIONS OF GPS</li> </ul>	<ul style="list-style-type: none"> <li>RFID</li> <li>4G TECHNOLOGY: WAP, WLL, BLUETOOTH TECHNOLOGY, WLAN / WIFI TECHNOLOGY</li> <li>WIRELESS &amp; MOBILE APPLICATIONS</li> <li>OVERVIEW OF UBIQUITOUS COMPUTING</li> </ul>
MODULE V: SUGGESTED PROJECT WORK	
<ul style="list-style-type: none"> <li>APPLICATIONS ON MULTIMEDIA MESSAGING SERVICES</li> <li>INTERNET INFORMATION SERVICES FOR WIRELESS DEVICES</li> <li>MOBILE PHONES APPLICATIONS</li> <li>INTERNET ENABLED PDA'S APPLICATIONS</li> </ul>	<ul style="list-style-type: none"> <li>JAVA ENABLED MOBILE SECURED APPLICATION</li> <li>APPLICATIONS BASED ON MOBILE BANKING</li> <li>APPLICATIONS BASED ON MOBILE CAMERAS</li> <li>MOBILE SHOPPING APPLICATIONS</li> <li>LAN, MAN, WAN BASED MOBILE APPLICATIONS ETC</li> </ul>

### 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**. All Candidates **must** also send the print out of the application form along with the self-attested photocopies of mark sheets and DD (if mode of payment is DD) so as to reach the below mentioned address. Candidates who have paid via **Credit Card** are also required to send the print out of the application form along with the self-attested photocopies of marksheets. The last date of form submission is on or before **25<sup>th</sup> January 2012**. It is advised to read the General Instructions carefully before filling up the Application Form. Registration Fee is **Rs. 300/-** per course. Fee can be paid through DD or Credit Card only. DD should be in favor of CDAC, Noida payable at NOIDA. 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 **28<sup>th</sup> & 29<sup>th</sup> February 2012** 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:** Basics of *Digital Electronics, Circuit theory, Microprocessor, Linear IC application, Concepts of Operating Systems, Introduction to computer s, C Language, , OOPS Concepts, General English, Analytical reasoning, Quantitative Aptitude*. For further details please visit [www.cdacnoida.in/SOE](http://www.cdacnoida.in/SOE)

### REGISTRATION FEES

**Fee for the Course is Rs. 55,150/- inclusive of Service Tax @10.3%, payable in two installments (First installment Rs. 33,090/- and Second of Rs. 22,060/- both inclusive of service tax) 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 **9<sup>th</sup> February 2012**. The second installment is to be paid on the first working day of the programme i.e. **13<sup>th</sup> February 2012**. 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 **9<sup>th</sup> February 2012**, his/her 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 10:00 am at the venue given below on **10<sup>th</sup> February 2012** for allotment of seats on merit basis.

**VENUE:** C-DAC, B-30, INSTITUTIONAL AREA, SECTOR – 62, NOIDA, PH. 0120-3063371-73 FAX : 0120-3063374