



ACTechS, B-30, Institutional Area  
Sector-62, NOIDA 201 307  
ISO 9001:2000 COMPANY



Diploma in Wireless  
Technologies & Applications

For information log on to our web site  
[www.cdacnoida.in](http://www.cdacnoida.in)  
Ph.: 0120 - 3063371-73, 59  
Fax: 0120 - 3063374  
[pgdwta@cdacnoida.in](mailto:pgdwta@cdacnoida.in)

## POST GRADUATE DIPLOMA IN WIRELESS TECHNOLOGIES & APPLICATIONS

Last date for submitting Application Form:

**2<sup>nd</sup> January 2009**

Date of Entrance Exam:

**11<sup>th</sup> January 2009**

Date of Result Declaration

**14<sup>th</sup> January 2009**

Date of Payment of fee for selected candidates:

**27<sup>th</sup> January 2009**

Date of payment of fee for waitlisted candidates:

**29<sup>th</sup> January 2009**

Commencement of Course:

**2<sup>nd</sup> February 2009**

### 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 computing facilities
- Creative cum learning work environment
- Experienced and resourceful faculty
- Well-equipped Library
- Active placement cell.
- State of Art, Hostel facility Available

### ELIGIBILITY CRITERION

- Engineering Degree in Electronics / Electrical / Electronics & Communication / Electronics & Instrumentation / Computer Science & Engineering preferably with first class academic records throughout their carrier.
- Students appearing for the final year examination are also eligible.

### PLACEMENT CELL

Co-ordinates & Assist 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. Excellent past placement record of PG Diploma (Non-formal Programmes).

## 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 STRUCTURES</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>● SYMBIAN OS USING C++</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 : MONTA VISTA/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 URQUITOUS 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> |
|--|--|

**ENTRANCE SYLLABUS & EXAM DETAILS** : The Entrance Exam will be conducted on 11<sup>th</sup> January 2009 at 2.00 PM on the venue mentioned below:

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>● Digital Electronics (Ref book : Digital Design by Morris Mano)</li> <li>● 'C' Programming Language (Ref : Let us C by Yashwant Kanetkar)</li> <li>● Networking &amp; Communication Concepts</li> <li>● General Aptitude</li> </ul> | <ul style="list-style-type: none"> <li>● Duration : 2 hours</li> <li>● Type : Objective type questions</li> <li>● Marks : 100</li> <li>● Sample Question paper is available on website <a href="http://www.cdacnoida.in">www.cdacnoida.in</a></li> </ul> |
|---|--|

### SUBMISSION OF APPLICATION

Application Form can be downloaded from our website [www.cdacnoida.in](http://www.cdacnoida.in) and sent along with a demand draft of Rs. 300/- in favour of "C-DAC, NOIDA" or can be collected from the center and submitted along with requisite fees. The last date for submission of duly filled application forms is 2nd January 2009 at venue mentioned below:

### REGISTRATION FEES

Fee for the Course is Rs. 45,000/- payable in two installments (First installment Rs. 30,000/- and Second Rs. 15,000/-) 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 27th January 2009. The second installment is to be paid on the first working day of the programme i.e. 6<sup>th</sup> February 2009. Course fee is non transferable & non-refundable. In case, any selected candidate does not pay first installment of fee by 29th January 2009, his seat will be cancelled. Such cancelled seats will be allotted to candidates in waiting list. Wait listed candidates may contact at the venue mentioned below on 29<sup>th</sup> January 2009 for allotment of seats on merit basis.

### VENUE:

### CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

B-30, INSTITUTIONAL AREA, SECTOR - 62, NOIDA  
PH. 0120-3063371-73 FAX : 0120-3063374