



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



Diploma in Wireless
Technologies & Applications

For information log on to :
<http://www.cdacnoida.in/SoE/pgdwta.asp>
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9810506024
Fax: 0120 - 3063374
info.pgdwta@cdacnoida.in

POST GRADUATE DIPLOMA IN WIRELESS TECHNOLOGIES & APPLICATIONS

Last date for submitting Application Form:

3rd July 2009

Date of Entrance Exam:

11th & 12th July 2009

Date of Result Declaration

16th July 2009

Date of Payment of fee for selected candidates:

27th July 2009

Date of payment of fee for waitlisted candidates:

29th July 2009

Commencement of Course:

3rd August 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

A) CDAC, Noida will provide Wi-Fi network wherein

1. Students are required to bring their personal laptops having a wireless LAN Card to the centre for laboratory work (Practicals) throughout the duration of the course. Laptops would be configured by System Administration department for use within the campus. Students should maintain these settings for use within the campus.
2. In case a student doesn't have a laptop and wants to use lab facility (PC) of organization, student would be required to pay additional fee of Rs. 4000/- at the time of admission.

B) Other facilities: State-of-the Art Infrastructure, Well-equipped Library with access to International Journals, 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. or equivalent in Electronics / Electrical / Electronics & Communication / Electronics & Instrumentation / Computer Science & Engineering and M.Sc (Electronics).

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

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| <ul style="list-style-type: none"> • OPERATING SYSTEM • SOFTWARE ENGINEERING CONCEPTS • LINUX SHELL PROGRAMMING | <ul style="list-style-type: none"> • PROGRAMMING WITH C++ & DATA STRUCTURE • PROGRAMMING WITH MOBILE JAVA TECHNOLOGY |
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MODULE II: BASICS OF WIRELESS & COMMUNICATION NETWORK

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| <ul style="list-style-type: none"> • DATA COMMUNICATION AND NETWORKING • BASICS OF WIRELESS COMMUNICATIONS • SYMBIAN OS USING C++ | <ul style="list-style-type: none"> • FUNDAMENTALS OF TELECOMMUNICATIONS • BASICS OF RADIO FUNDAMENTALS |
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MODULE III: EMBEDDED PROGRAMMING

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| <ul style="list-style-type: none"> • PROGRAMMING WITH LINUX INTERNALS • 8-BIT MICROCONTROLLERS AND INTERFACING | <ul style="list-style-type: none"> • PROGRAMMING WITH RTOS :RTLinux • Programming with 16/32 BIT ARM CONTROLLER |
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MODULE IV: WIRELESS & MOBILE TECHNOLOGIES

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| <ul style="list-style-type: none"> • UNDERSTANDING GSM & GPRS • 3G WIRELESS MOBILE COMMUNICATIONS: CDMA • UMTS : OSA , NETWORK PROTOCOL, W-CDMA • GPS: ARCHITECTURE, RECEIVER, DIFFERENTIAL GPS, APPLICATIONS OF GPS | <ul style="list-style-type: none"> • RFID, ZigBee, WIRELESS SENSORS NETWORK • 4G TECHNOLOGY: WAP, WLL, BLUETOOTH TECHNOLOGY, WLAN / WIFI TECHNOLOGY • WIRELESS & MOBILE APPLICATIONS • OVERVIEW OF UBIQUITOUS COMPUTING |
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MODULE V: SUGGESTED PROJECT WORK

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| <ul style="list-style-type: none"> • APPLICATIONS ON MULTIMEDIA MESSAGING SERVICES • INTERNET INFORMATION SERVICES FOR WIRELESS DEVICES • MOBILE PHONES APPLICATIONS • INTERNET ENABLED PDA'S APPLICATIONS | <ul style="list-style-type: none"> • JAVA ENABLED MOBILE SECURED APPLICATION • APPLICATIONS BASED ON MOBILE BANKING • APPLICATIONS BASED ON MOBILE CAMERAS • MOBILE SHOPPING APPLICATIONS • LAN, MAN, WAN BASED MOBILE APPLICATIONS ETC |
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SUBMISSION OF APPLICATION & ENTRANCE EXAMINATION

For submission of Application Form, visit website www.cdacnoida.in. The last date for submission of duly filled Application Form is 3rd July 2009. Same application form is to be used for applying for either or both of the courses i.e PGDWTA & PGDEVD. Examination fee for each of the course is Rs. 300/-. A demand draft of Rs. 300/- or Rs. 600/- (depending on number of courses applied for) in favour of CDAC, Noida payable at NOIDA has to be sent along-with attested photocopies of certificates/marksheets. The last date for sending of DD and attested photocopies of certificates/marksheets is 3rd July 2009. There will be an Online Entrance Examination in 4 slots on 11th July 2009 and 12th July 2009 at 2 centres i.e. C-DAC, B-30, Institutional Area, Sector – 62, NOIDA & CIT, MSME-DI Extension Centre, Opp. L Block outer Circle, Connaught Place, New Delhi. The test would be of 2 hrs or 3½ hrs duration consisting of 100 or 170 Multiple Choice Questions depending on number of courses applied for. Test would be based on following depending on course(s) opted.

Only PGDWTA: Digital Electronics 'C' Programming Language General Aptitude, Communication & Computer Networking.

Both PGDWTA & PGDEVD : Digital Electronics 'C' Programming Language, General Aptitude, Communication & Computer Networking

REGISTRATION FEES

Fee for the Course is Rs. 45,000/- payable in two installments (First installment Rs. 25,000/- and Second Rs. 20,000/-) 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 July 2009. The second installment is to be paid on the first working day of the programme i.e. 3rd August 2009. 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 27th July 2009, 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 29th July 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