



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



For information log on to
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POST GRADUATE DIPLOMA IN GIS & REMOTE SENSING

Last date for submitting Application Form:
28th February 2010
Date of Entrance Exam:
6th & 7th March 2010
Date of Result Declaration
11th March 2010

Last date of Payment of 1st Installment of fees for
selected candidates: 17th March 2010
Last date of Payment of 1st Installment of fees for
Waitlisted candidates: 19th March 2010
Commencement of Course: 22nd March 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 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 platforms of IT industry through HRD activities, transmitting the goal of Ministry of Information Technology, Government of India, to bring fruits of Information Technology to every walk of life.

Finishing school of CDAC, NOIDA offers various post graduate diploma programmes, short term programmes at national / international levels. It also offers e-learning courses on specific subjects.

ABOUT PGD GIS & RS

Post Graduate Diploma in Geographic Information System & Remote Sensing is a six months (24 weeks) full time programme comprising of 3 modules in GIS & RS namely Fundamentals of Remote Sensing, Core GIS & Application Development. It incorporates Specialization through project work in different domains of GIS & RS. The syllabus of the course has been focused to cover practical GIS & RS applications in Land Management, presenting the theory behind applications and implementation. The programme prepares skilled Software professionals (GIS Analysts, GIS Engineers/ Programmers, GIS Consultants) through classroom lectures and practical training, making use of client server and Internet GIS technology.

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/- per 6 months / semester duration 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

- Post Graduation OR Graduation in Geography / Geology / Planning / Forestry / Environmental Sc./ Disaster Management / Agriculture (B.Sc., M.Sc., B.E., B. Tech) / Botany with computer Knowledge OR BE / B. Tech (CS / EC / IT/Civil) / MCA OR M.Sc. (CS / IT / E&C/GIS).
- Students who have appeared for final year exams are also eligible.

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 of the company and the placement cell has no say on the recruitment policy. Brief list of companies where students are working: ROLTA, SGS Infotech, Ramky, GIS Consortium, RMSI, Infotech, Spatial Decision, RSAC(Lucknow), Adriotec, INCA Informatics, CE Info System (p) Ltd., etc.

COURSE CONTENTS

REMOTE SENSING

CONCEPTS OF RS

- Elements of Remote Sensing
- Satellite Remote Sensing & Sensors
- Multispectral & Thermal Remote Sensing
- Microwave & Remote Sensing Applications
- Basics Of Statistics
- Basics of GPS
- Fundamentals of Aerial Photography & Photogrammetry

DIP USING ERDAS IMAGINE

- Image Interpretation & Analysis
- Layer Stacking
- Image Enhancement Tools
- Image Rectification and Ratioing
- Mosaicking & Subsetting
- Image Classification

CORE GIS

FUNDAMENTALS OF GIS

- Basics of Geography & Cartography
- Map Projections
- Fundamentals of GIS
- Spatial Data Models
- Creating & Editing Geodata
- Spatial Data Analysis & Thematic Map Preparation

GIS DATA PREPARATION & ANALYSIS

- AutoCAD, AutoCAD Map, Map Info
- PC Arc Info, Arc View and Arc GIS
- Spatial Analysis using Arc GIS.

APPLICATION GIS Development

COMPUTER FUNDAMENTALS & NON-SPATIAL DATABASE

- Database concepts, Data Normalizations
- Relation between different tables
- Linking of External non spatial database to Geo Database (Using MS Access 2000 & Oracle 9i)

APPLICATION GIS DEVELOPMENT **

- Client/Server GIS using Oracle, VB.Net and Map Objects.
- Internet GIS using ASP. Net.
- Tools: VB.NET, ASP.NET, SQL, and PL/SQL.

APTITUDE SKILLS & PERSONALITY DEVELOPMENT

PROJECT WORK (6 Weeks) (Client Server GIS, RS & Internet GIS)

SUBMISSION OF APPLICATION & ENTRANCE EXAMINATION

For submission of Application Form, visit website www.cdacnoida.in. Registration for the course would be done ONLINE. It is advised to read the General Instructions carefully before filling up the Application Form. The last date for submission of duly filled application forms is 26th February 2010 at address mentioned below. Registration fee is Rs. 300/-. Fee can be paid through DD or Credit Card Only. DD should be in favour of CDAC, Noida payable at NOIDA. 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. Candidate should ensure that the printout of application form along with attested photocopies of certificates/marksheets and DD (if mode of payment is DD) should reach at below mentioned address latest by 26th February 2010. Roll No for exam of all such candidates would be displayed on CDAC, Noida website by 2nd March 2010. Candidates whose names are not in the displayed list should contact the Programme Leader.

There will be an Online Entrance Examination in 4 slots on 6th & 7th March 2010 at C-DAC, B-30, Institutional Area, Sector – 62, NOIDA. The test would be of 2 hrs duration consisting of 100 Multiple Choice Questions based on following : General Aptitude:70Qs, General Computer Awareness:30 Qs

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 17th March 2010. The second installment is to be paid on the first working day of the programme i.e. 22nd March 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 17th March 2010, 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 the venue given below on 19th March 2010 for allotment of seats on merit basis.