



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 Online Registration:

**24<sup>th</sup> February 2012**

Date of Entrance Exam:

**4<sup>th</sup> March 2012**

Date of Result Declaration

**12<sup>th</sup> March 2012**

Last date of Payment of 1<sup>st</sup> Installment of fees for  
selected candidates: **20<sup>th</sup> March 2012**

Last date of Payment of 1<sup>st</sup> Installment of fees for  
Waitlisted candidates: **22<sup>nd</sup> March 2012**

Commencement of Course: **26<sup>th</sup> March 2012**

### 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:**

State-of-the Art Infrastructure, Well-equipped Library with access to International Journals, Wi-Fi 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**

- Post Graduation OR Graduation or Diploma (10+3 Yrs)
- Candidates should have minimum 50% in last qualifying degree. Candidates who have less than 50% in any of the academic qualifications are Not Eligible. Students appearing for the final semester examination 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 (Past academic record & Internal Assessment at CDAC, Noida)** of the company and the placement cell has no say on the recruitment policy. Partial list of our recruiters: **SGS InfoTech, Ramky, GIS Consortium, RMSI, InfoTech, Spatial Decision, RSAC (Lucknow), INCA Informatics, CE Info System (p) Ltd., Riding 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 Mapping SDK
- Internet GIS using ASP. Net.
- Tools: VB.NET, ASP.NET, SQL, and PL/SQL.
- \*\* Specific to GIS only

### 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](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 by or before **29<sup>th</sup> February 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 2 slots on **04<sup>th</sup> March 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: Introduction to Computers, General English, Logical Reasoning, Quantitative Aptitude and MS-Office. For further details please visit [www.cdacnoida.in/FS/pgdgis.asp](http://www.cdacnoida.in/FS/pgdgis.asp)**

### 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 **20<sup>th</sup> March 2012**. The second installment is to be paid on the first working day of the programme i.e. **26<sup>th</sup> March 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 **20<sup>th</sup> March 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 **22<sup>nd</sup> March 2012** for allotment of seats on merit basis.