

Prospectus 2014-15



National Institute of Electronics & Information Technology

An autonomous body of Dept. of IT, Ministry of Comm. & IT, Govt. Of India
2nd Floor, Parsvnath Metro Mall, Inderlok Metro Station, Inderlok, Delhi-52.



Education



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NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY

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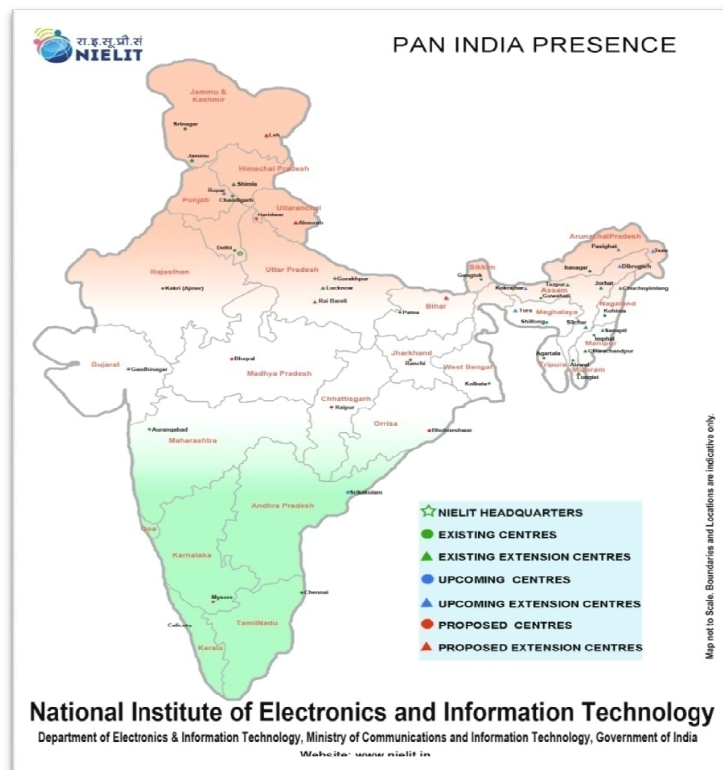
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THE BACKGROUND

NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY (NIELIT), is an Autonomous Scientific Society of Department of Electronics and Information Technology (DeitY), Ministry of Communications & Information Technology, Government of India. It was set up to carry out Human Resource Development and related activities in the area of Information, Electronics and Communication Technology (IECT). NIELIT, is functioning under the overall control and guidance of the Governing Council. Hon'ble Minister, for Communications and Information Technology, Govt. of India, is the Chairman of the Council. The members of the Council are from the varied field of academia, Govt. Organizations, industrial sectors and representatives from various professional bodies. The Society has a Management Board headed by Secretary, Department of Electronics and Information Technology, Govt. of India. It has a nationwide presence with Centres across the country. Each Centre, has an Executive Committee with representatives of respective State Governments and local industries, for effective implementation of the decisions of the Council. The Centre is engaged both in the formal and non formal education in the area of IECT besides development of industry oriented quality education and training in the state-of-the-art areas.

1.1 Nielit Offices-Pan India Presence

The Society with headquarters at New Delhi has Centres at 28 different locations in the country



1.2 NIELIT-Delhi – in Brief

1.2.1 Location

NIELIT, Delhi Centre is located right at “Inderlok Metro Station” and is housed in a centrally air conditioned spacious Parsavnath Metro Mall with parking facility. It is well connected with New Delhi Railway Stations (which is just 7 Kms.), & Old Delhi Railway Station (just 6 Kms) and Inter State Bus Terminal Kashmere Gate (just 7Kms) which is hardly 10 minutes Metro Run from Kashmere Gate Metro Station. It is easily approachable from all corners of Delhi through Delhi Metro.

1.2.2 Introduction

NIELIT, Delhi Centre was established in March 2000 and has proven its capability and efficiency of providing quality Computer Education and handling large projects of Govt. organizations in different sectors. The Centre was initially working as Branch Office of NIELIT, Chandigarh Centre .It was declared as an independent Centre of NIELIT on 1st November, 2012. The centre has accomplished many feats in executing various turnkeys IT Projects which involved the automation of many Hospitals and various Government offices.

NIELIT is a premiere ICT education institute. Established in 2000, NIELIT is a pioneer in IT and Electronics training. The institute offers world class quality of education, a wide range of courses, job placement assistance. NIELIT prepares the students to be part of growing industry.

1.2.3 Thrust Area

IT /Electronics education, Capacity building in the areas of e-Governance, GIS etc. Automation, Web Application Development, Online/Offline Examinations have been our major thrust areas where the Centre has excelled and has braced a name for itself.

1.2.4 Introduction to the Centre

The Centre is fully geared to meet the new Challenges in IT Industry. A pool of committed talent is tirelessly working to achieve the specific benchmarks set in the IT field to match speed at “**Business @ thought**”. The Centre’s strength lies in the dynamic and innovative leadership which is always in search of new ventures and challenges to work on. We have been successful in all major ventures undertaken by us, be it Training , Software Development or Electronic Data Processing, we have left an indelible mark on the minds of our clients. “Cost effective, time-to market solutions” is our motto that we not only boast about, but actually put it into practice. Every member of our team is committed to work on these principles. We have paved way for many of the success stories that have been coined by our Centre’s most prized possessions ----- “**The Students.**”

1.2.5 Infrastructure

The Centre has state of the art computing facilities with five fully furnished classrooms, four dedicated laboratories for the students to carry out their practical assignments equipped with multimedia Projector. Cisco Lab has been designed to establish Cisco Local Academy with the state of the art networking equipment. A dedicated library comprising of more than 1000 books with latest journals and magazines exist for the students as well as faculty. There is a dedicated server for imparting online training on Information Security through virtual classroom.

1.2.6 Objectives

- Disseminate knowledge on all aspects of IT and Electronics.
- Provide Quality Education and Training to prepare individuals for technology driven business environment effectively.
- Provide quality education to participants for upgrading their technical skills in an environment that is conducive to learning by providing good infrastructure.
- Provide continuing support to learners and trainers through design and development of innovative curricula for meeting the dynamically changing IECT scenarios.
- To impart continuing education for up gradation of knowledge and skills in view of high obsolescence in the area of IECT.

2. General Terms and Conditions

2.1 Eligibility for Admission

Admission in the courses is based on merit of the candidate's qualifying Degrees/Diplomas.

2.2 Instructions for Admission

1. The duly filled in application form together with attested copies of all relevant marksheets and caste certificate should be submitted by the stipulated date at reception.
2. Incorrectly filled, incomplete, unsigned and forms received after due date will be rejected.
3. NIELIT Delhi Centre reserves the right to cancel the admission of a candidate under any of the following circumstances:
 - If the fee is not deposited by the stipulated date.
 - If the candidate does not join the particular program by the stipulated date even though the fee has been deposited.
 - If the candidate fails to furnish the proof of the stipulated minimum qualifications .
 - On any other reasonable ground at the discretion of the Director of the institute.
4. **Right of Alteration/Modifications: NIELIT Delhi Centre reserves its right to alter or modify the structure of any programme as may be required.**

2.3 Registration

The students seeking admission in NIELIT O/ A/ B Level Courses will have to deposit one time registration fees of Rs. 500/- to NIELIT, Delhi. There is no registration fee for other courses.

2.4 Identity/Registration Card

Each student is issued an Identity Card upon his admission. The students are instructed to bring their ID Card daily, failing which they are not allowed to enter the premises. **A student, who has lost his /her Identity/Registration Card, can obtain a duplicate one from the Centre by paying Rs.100.**

Return of ID card: Candidate should surrender his/ her I card on course completion.

2.5 Qualifying Percentage

In order to qualify in an examination for each subject in NIELIT Courses (that is DOEACC 'O', 'A', 'B' level) a candidate must obtain at least 50% marks in Theory and Practical examination for each Subject/Module. For PGDCA, other Diploma and for other Short Term courses, **the qualifying percentage is 40%**.

2.6 Attendance

The students should have minimum 60% attendance in order to be eligible for appearing in the final examination. NIELIT Delhi Centre reserves the right to not allow the student to appear in examinations if he/she does not meet this requirement.

2.7 Fees

Fee must be deposited by the due dates and as per the fee plan given at the time of admission. A late fee Rs. 50 per day will be charged from the candidate who pays fee after due date. NIELIT Delhi Centre holds the discretion to cancel the admission in case the candidate fails to submit the fee in time.

2.8 Fee Refund

1. The fee, once paid, is non transferable and non refundable.
2. The fee will be refunded only in case the centre fails to start the particular batch.

2.9 Batch Transfer

The student is allowed to transfer his /her batch in case his/her attendance in the module/course is less than 20%. The transfer fee of Rs.1000+S.Tax in case of long term course and Rs. 400+S.Tax in case of short term courses will have to be paid by the candidate. In case the fee of the new course is less than the fee already paid, it shall not be refunded. In case the fee of the new course is more than the fee already paid, the balance fee shall have to be paid by the candidate.

2.10 Certification Examination

A final test will be taken after the completion of the course. No change in the examination date shall be made on the request of the candidates.

2.11 Retest

In case the candidate fails to appear in the examination/ fails to pass the examination, he/she will be given three chances of re-appear within 365 days of the date of the start of the course. For every retest, the candidate shall have to pay the fee of Rs.300/- + S.Tax (for each module). If the candidate fails in re-test within one year of the course, he /she will have to undergo the course again.

2.12 Student Projects

For the project work, the students are required to submit the Project Evaluation Form which is scrutinized by the Project Appraisal Team. Students are to obtain the signature of the Project Guide in the Project Evaluation Form. Proper guidelines as per the Course have to be properly followed regarding the eligibility, scope and duration of the project. The projects are evaluated by the Project Evaluation Team on regular basis.

2.13 Working Hours & Holidays

The Institution follows five-day week routine from Monday to Friday. In addition, it follows a schedule of holidays as per the rules of the Government of India.

2.14 Leave Procedure

A leave application addressed to the Training Coordinator/Officer should be submitted for each day of leave to the concerned Subject-In-Charge. Leave up to 3 days, will be granted by concerned subject-In-Charge.

For leave lasting more than 3 days, prior permission has to be taken in writing. The leave application should be submitted on joining, with medical certificate in case of medical leaves or other supporting documents. Absence for 5 consecutive days, without proper justification will be treated as discontinuation and would lead to strict action against the concerned student.

2.15 Examination & Promotion Rules

a) For NIELIT O/A/B exams:

The Attendance and the performance in Term Exams of a student will be considered for the eligibility to appear in NIELIT examination. No Dues Certificate is to be submitted by the student for getting the final certificates. The Examination Fee of Rs. 500/- for each theory and Rs. 300/- for each practical of O, A and B level is charged(as per NIELIT norms). The pass percentage for the exams is 50%.

The certificate of the course is issued by NIELIT Headquarters.

For other courses

The students need to undergo a test at the end of the course and to pass the course, 40% marks are required. A certificate is issued to the students by this centre after passing the course.

A Student who has lost his/her Certificate can obtain a duplicate one from the Centre by paying Rs.100/-

b) CHM O/A Level exams:

Same as NIELIT O/A/B level exams except that service tax has to be paid over and above exam fee. The examination and certification are to be done by NIELIT Aurangabad Centre.

2.16 Library Rules

- To borrow a book or visit the Library the student must become the Library member.
- Students are allowed to borrow books as per availability and regulation.
- Students can avail Library facility during the working hours only.
- Reference books are accessible only in the Library and will not be issued.
- Delay in returning books will be fined at the rate of Rs.10 per day.
- Student shall be responsible for the loss of books, and will have to compensate for it in kind or cash.
- Students are expected to maintain complete silence inside the Library.
- Handbags, rucksack, backpack, knapsack, are restricted inside the Library.
- Students have to pay library security deposit of Rs.500 to become the member of the library (which is refundable after adjustment of fine, if any, after the completion of the respective course).

2.17 Laboratory Rules

- For using the lab, beyond the allocated time, students must take permission from their concerned faculty member or Lab- Supervisors.
- No external storage devices like CD, DVD, Pen drives etc. are allowed inside the laboratory and in case the requirement arises, the prior permission should be obtained from Lab Supervisors or concerned Faculty.
- For any offence committed by the students in the lab, including misuse of Internet, appropriate disciplinary action will be taken by the Institution.

2.18 Discipline

- Smoking, consumption of intoxicants etc., is strictly prohibited inside the institute premises.
- Students are expected to maintain proper discipline and decorum. They must maintain a good conduct and behaviour in the class.
- Mobile Phones, and other Electronics gadgets should be switched off inside the class, laboratory and library.
- Strict disciplinary action will be taken against those students who do not follow the rules and regulations of the Centre.

Please Note: *The Centre shall not be responsible for any errors or omissions of the contents*

3. Courses Offered by NIELIT, New Delhi

Long Term Courses	
1.	DOEACC 'O' Level IT Course
2.	DOEACC 'A' Level IT Course
3.	DOEACC 'B' Level IT Course
4.	DOEACC 'O' level Multimedia and Animation Course(MAT-O)
5.	DOEACC 'O' Level on Computer Hardware Maintenance(CHM-O)
6.	Diploma in Computer Applications
7.	Advanced Diploma in Computer Applications
8.	Post Graduate Diploma in Computer Applications
9.	Post Graduate Diploma in Software Technologies
10.	Diploma in Computer Hardware and Networking
11.	Advanced Course in Multimedia and Animation
12.	Diploma in .Net technologies
13.	Diploma in J2EE
3.2 Short Term Courses	
1.	C/C++
2.	Programming through C
3.	Programming through Python
4.	Object Oriented Programming through C++
5.	Programming through C#
6.	2D Animation (Flash)
7.	Office Automation / Certificate Course in Computer Concepts
8.	Data Entry and Office Automation
9.	Financial Accounting Using Tally
3.3 Web Technologies	
1.	Web Designing : HTML, DHTML, JAVA Script, Flash, Photoshop
2.	ASP.Net with VB.Net
3.	ASP.Net with C#
4.	J2EE
5.	PHP With MY SQL
3.4 Project Training Courses	
1.	PHP With MY SQL
2.	ASP.Net with VB.Net
3.	ASP.Net with C#
4.	J2EE
5.	Mobile Applications using Android
3.5 Electronics courses	
1.	Embedded Systems(8051 Microcontroller)
2.	VHDL
3.6 Courses for School students	
1.	Beginners course in Photoshop
2.	Beginners course in Flash
3.7 Other Courses	
1.	Cisco Certification (CCNA and CCENT)
2.	Android (for mobile Application Development)

Duration and **fee details are at page no. 22**

3. Course Details

3.1 Long Term Courses

3.1.1 DOEACC -IT 'O' Level Computer Course

'O' level course of NIELIT Scheme is equivalent to a **Foundation Level Course in Computer Applications**. Students can acquire this qualification by undergoing the course in NIELIT Delhi Centre and passing the National Level examination conducted by NIELIT Head Quarters. After completion of 'O' Level course, students can further enroll for DOEACC 'A' level course.

Various subjects for the programme are-

- M1-R4 IT Tools and Business System
- M2-R4 Internet Technology and Web Design
- M3-R4 Programming and Problem Solving through 'C'
- M4-R4 Elective (one module out of the following three modules to be chosen)
- M4. 1-R4 Application of .Net Technology
- M4. 2-R4 Introduction to Multimedia
- M4. 3-R4 Introduction to ICT Resources
- PR Practical (Based on M1, M2, M3, M4 module syllabus)
- Project

Eligibility for admission: 10+2 or ITI Certificate course (one year).

Practical

The students are required to devote half of the working hours allotted to each module for practical sessions. Practical assignments are worked out for each theory module. The practical examination is based on the syllabi of M1-R4, M2-R4, M3-R4 and M4-R4 modules.

Project

The project provides students an additional hands-on experience in solving a real life problem by applying knowledge and skills gained on completion of theory papers in a course at a given level. For the 'O' Level Computer Course, marks are not specifically assigned for the project assignment. However, it is compulsory to submit a project report to complete the course.

Career opportunities

The career options available to a NIELIT 'O' Level qualifiers are:

- Computer Operator
- Lab Attendant
- Computer Instructor
- Junior Programmers etc.

3.1.2 DOEACC IT 'A' Level Computer Course

'A' level course of NIELIT Scheme is equivalent to **Advanced Diploma in Computer Applications**. Students can acquire this qualification by undergoing the course in NIELIT Delhi Centre and passing the National Level examination conducted by NIELIT Head Quarters. After completion of A level course students can further enroll in 'B' level course of NIELIT Scheme. 'A' Level Course consists of ten theory modules (nine compulsory modules and one elective module) and one project. The structure of the 'A' Level Syllabus is indicated as follows:

- A1-R4 IT Tools and Business System
- A2-R4 Internet Technology and Web Design

- A3-R4 Programming and Problem Solving through 'C'
- A4-R4 Computer System Architecture
- A5-R4 Structural System Analysis and Design
- A6-R4 Data Structure through 'C++'
- A7-R4 Introduction to Data Base Management System
- A8-R4 Basic of OS, UNIX and Shell Programming
- A9-R4 Data Communication and Network Technologies
- A10-R4 Elective (one out of the following two subjects to be chosen)
- A10.1-R4 Introduction to Object Oriented Programming through JAVA
- A10.2-R4 Software Testing and Quality Management
- PR-1 Practical-I (based on A1, A2, A3, A4 module syllabus)
- PR-2 Practical-II (based on A5, A6, A7, A8, A9, A10 module syllabus)
- PJ Project

Eligibility for admission

'O' Level or Government recognized polytechnic engineering diploma after class 10, or a Government recognized polytechnic engineering diploma after 10+2 / Graduate
Those who are pursuing graduation can also take admission, but the A level certificate shall be awarded only after the completion of graduation.

Validity of submission of 'A' Level Project

'A' Level student can submit their project only after clearing their five papers and appearing for the remaining papers in the next examination. Each 'A' Level project would be of approximately 350 man-hours carrying a total of 100 marks (80% for the project evaluation and 20% for the viva-voice).

Career opportunities

The career options available to a DOEACC 'A' Level qualifiers are:

- Programmer.
- Web Administrator.
- Training Faculty.
- Web Content Developer.
- System Support Engineer.

3.1.3 DOEACC IT 'B'-Level Computer Course

Students can acquire this qualification by undergoing the course in NIELIT Delhi Centre and passing the National Level examination conducted by NIELIT Head Quarters. Working professionals can also appear in this examination directly, provided they possess the requisite education qualification as indicated below.

Eligibility for admission

- Level 'A' / Government recognized PPDCA/ Government recognized PGDCA / Government recognized Polytechnic Engineering Diploma / Graduate (First two semesters are exempted for those who have passed 'A' level in full. Candidates having Government recognized PPDCA / Government recognized PGDCA will also be eligible for exemption of some subjects depending on the courses they had undergone, on a case by case basis).

Syllabus

The papers for 'B' level are indicated below:

SEMESTER-I

- B 1.0 -R4 Basic Mathematics
- B 1.1-R4 IT Tools and Business Systems
- B 1.2-R4 Internet Technology and Web Design
- B 1.3-R4 Programming and Problem Solving through 'C' Language
- B 1.4-R4 Computer System Architecture
- B 1.5-R4 Structured System Analysis & Design

SEMESTER-II

- B 2.1-R4 Data Structure through 'C++'
- B 2.2-R4 Introduction to Database Management Systems
- B 2.3-R4 Basics of OS, Unix and Shell Programming
- B 2.4-R4 Data Communication and Network Technologies
- B 2.5.1-R4 Introduction to Object Oriented Programming through Java
- B 2.5.2-R4 Software Testing and Quality Management

SEMESTER-III

- B 3.1-R4 Management Fundamentals and Information Systems
- B 3.2-R4 Discrete Structures
- B 3.3-R4 Software Engineering & CASE Tools
- B 3.4-R4 Operating Systems
- B 3.5-R4 Visual Programming

SEMESTER-IV

- B 4.1-R4 Computer Based Statistical & Numerical Methods
- B 4.2-R4 Professional & Business Communication
- B 4.3-R4 Object Oriented Database Management Systems
- B 4.4-R4 Computer Graphics & Multimedia
- B 4.5-R4 Internet Technology and Web Services

SEMESTER-V

- B 5.1-R4 Software Project Management
- B 5.2-R4 Automata Theory & Compiler Design
- B 5.3-R4 Network Management and Information Security
- B 5.4-R4 Elective –II (Two out of the following)
- B 5.5-R4 Elective –III (Twelve Subjects to be chosen)
- BE1-R4 Embedded Systems
- BE2-R4 Artificial Intelligence & Neural Network
- BE3-R4 E-Business
- BE4-R4 System Modeling & Computer Simulation

- BE5-R4 Parallel Computing
- BE6-R4 Data Warehouse and Data Mining

Project

There are three projects at 'B' Level

'B' Level first project (PJ-1-R4)

- Every candidate should do a project individually and no grouping is allowed. The project will be carried out under the guidance of the institute 'B' Level Project student can submit the project only after clearing 5 papers from the first two semesters and appearing in remaining papers of these two semesters in the next examinations.
- The first Project would be approximately 350 man-hours and carries a total of 100 marks (80% for the project evaluation and 20% for the viva-voce).

Mini Project

- NIELIT curriculum has a mini project as an important component of 'B' Level which is Seminar on any latest technology.

'B' Level Final Project

- All 'B' level candidates are required to get the synopsis of the project and the brief bio-data of the supervisor / Guide approved from the Society.

Career opportunities

The career options available to DOEACC 'B' Level qualifiers are:

- Systems Analyst
- Software Engineer
- R & D Scientist
- EDP Manager
- Training Faculty

3.1.4 DOEACC Multimedia and Animation Technology O level

Objective:

- To acquire the basic knowledge to appreciate the basic Multimedia systems, tools, and techniques.
- To acquire the basic skills to implement components of Multimedia productions and Web Designing
- To acquire the basic knowledge for Animation production skills

Eligibility: 10+2 [Any Discipline]

Syllabus: MAT-O level

- MAT.O1.R0: - Introduction to Information Technology.
- MAT.O2.R0: - Introduction to Multimedia.
- MAT.O3.R0: - Multimedia Processing Techniques
- MAT.O4.R0: - Multimedia Design Principles and Applications

Career Options:

As per the recent market trend and the objective of the course as well as the projected skill sets of the 'O' level qualifiers, it is envisaged that the likely career options will be as Multimedia Production Assistant, Multimedia Technician and as Web Developer.

3.1.5 DOEACC CHM 'O' Level Course on Computer Hardware Maintenance

The course is designed to bring out standardization in the field of Hardware maintenance. The curriculum is designed for participants, who want to take up the job of Installation, Maintenance, Troubleshooting and Networking of the Computer Systems and peripherals. Further, after completion of CHM 'O' Level, students can continue DOEACC CHM 'A' level course to gather advanced skills in this field. Various subjects for the programme are:-

- Electronic Components & PC Hardware
- PC Architecture
- Computer Peripherals & Networking
- System Software, Diagnostic & Debugging Tools
- Personality Development and Communication Skills

Eligibility: 10+2(Science)/ITI (1Year after 10) in Electrical/ Electronics/ Computers/ Instrumentation Engineering.

Non Science students can also join CHM 'O' Level course. The certificate will be issued after clearing bridge course (comprising of topics from Physics and Mathematics) which would be conducted in parallel with CHM 'O' Level course and fee would be Rs. 3500/-.

3.1.6 Diploma in Computer Applications (Semester I)

This course is designed to primarily focus on the stream of students who wish to have Diploma in IT and good knowledge of Computer fundamentals and programming. The first semester is Diploma in Computer Applications which is of six months duration.

Eligibility: 10+2 is required .No prior knowledge of Programming language is required.

Details of the Papers, Modules to be taught and Distribution of Marks in the module:

S.no.	Paper Code	Modules	Marks Distribution	Max Marks	Pass Marks
1	PGDCA 11	a)Computer Fundamentals and Windows b) Office Automation (MS Word, Excel, Power Point) c) Internet and E-mail d) Algorithm Design	25 100 25 50	200	80
2	PGDCA 12	Financial Accounting using Tally		200	80
3	PGDCA 13	a) C/C++ b)Data Communication (Basics)	50 150	200	80

4	Practical-1	a) Practical b) Viva c) Practical file	150 25 25	200	80
5	Internal Assessment	a) Attendance b) Quiz c) Class Participation d) Discipline	30 30 20 20	100	40

3.1.7 Advanced Diploma in Computer Applications (Semester II)

The second semester is Advanced Diploma in Computer Applications which is of six months duration.

Eligibility: Graduation is required as well as the student must have attended DCA.

Details of the Papers, Modules to be taught and Distribution of Marks in the module:

S.no.	Paper Code	Modules	Marks Distribution	Max Marks	Pass Marks
1	PGDCA 21	Web Designing (HTML, DHTML, Java Script, Flash, Photoshop)		200	80
2	PGDCA 22	a) VB.Net with SQL Server b) System Analysis and Design	150 50	200	80
3	PGDCA 23	Linux, PHP, MYSQL		200	80
4	Practical-1	a) Practical b) Viva c) Practical file	150 25 25	200	80
5	Internal Assessment	e) Attendance f) Quiz g) Class Participation h) Discipline	30 30 20 20	100	40
6	Project Work			200	80

3.1.8 Post Graduate Diploma In Computer Applications (Semester I and II)

This course is designed to primarily focus on the stream of students who wish to have ample of knowledge in the IT field. They can get good placement in the Industry considering the varied knowledge base that they would develop through this programme. The course would comprise of 2 Semesters in total and would cover the course contents of both the semesters of DCA(Semester1) and ADCA(Semester-2).

Eligibility

Graduation is required. No prior knowledge of Programming language is required.

3.1.9 Post Graduate Diploma in Software Technologies

This hands-on training course has been specifically designed to address the requirements of developers who want to become experts in .NET environment/ Java environment.

Eligibility

Graduation with IT or Computer Science or Electronics as optional subject, Graduate in Engineering/ MCA, DOEACC 'A'/'B'/'C' Level and PGDCA can opt for this course.

Details of the Papers, Modules to be taught and Distribution of Marks in the module:

S.no.	Paper Code	Modules	Max Marks	Pass Marks
1	DST-1	Diploma in .Net Technologies	300	120
2	DST-2	Diploma in J2EE	300	120
3	Project Work		300	120
4	Internal Assessment	i) Attendance j) Quiz k) Class Participation l) Discipline	30 30 20 20	40

3.1.10 Diploma in Computer Hardware and Networking (Semester I and II)

This course would help the students to prepare for entry level Hardware job opportunities in hardware industry. The student's skill set in troubleshooting Hardware related problems, network troubleshooting will be enhanced to a considerable level to match the requirements of the Industry.

Eligibility : 10+2

Details of the Papers, Modules to be taught and Distribution of Marks in the module: Semester I

S.no.	Paper Code	Modules	Max Marks	Pass Marks
1	DCHN-11	Electronic Components and PC Hardware	150	60
2	DCHN-12	PC Architecture	150	60
3	Practical-1	a)Practical b) Viva c) Prac. File	150	60
4	Internal Assessment	a)Attendance b)Quiz c)Class Participation d)Discipline	30 30 20 20	40
5	Internal Assessment	a)Attendance b)Quiz c)Class Participation d)Discipline	30 30 20 20	40

3.1.11 Advanced Course in Multimedia and Animation

The course has been designed keeping in view the student lot who want to build a career in Multimedia and Animation to cater to the needs of growing Animation and Multimedia industry of trained

professionals for various areas such as Animated films & cartoon movies, Television/film special effects , Advertising, Architectural Modelling & Walkthroughs, Multimedia presentations and Web designing.

Eligibility

Basic knowledge of computers.

3.1.12 Diploma in .Net Technologies

Kindly refer 3.1.9 DST-1

3.1.13 Diploma in J2EE

Kindly refer 3.1.9 DST-2

3.2 Short term courses

3.2.1 C/C++

Course Contents : Data type, Operators, Control Statements, Structures, Pointers, File handling, classes, objects, inheritance, overloading, Virtual function, static function, friend function, templates, exception handling.

3.2.2 Programming with C

Course Contents : Data type, Operators, Control Statements, Structures, Pointers, File handling, classes, objects, inheritance, overloading, Virtual function, static function, friend function, templates, exception handling.

3.2.3 Object Oriented Programming through Python

Course Contents: Variables, Expressions and Statements, Conditional constructs and looping, Strings, Lists, Dictionaries, Tuples, OOPs, Classes, Iheritance.

3.2.4 Programming with C++

Course Contents : Object Oriented Concepts, C++, Variables and Constants, Data Types, operators, decision making, loop control, Arrays, Classes, Objects, Inheritance, Constructor, Destructors, Friend function, Overloading, Exception Handling.

3.2.5 Programming with C#

Course Contents :

Object Oriented Concepts, Variables, Data Types, operators, decision making, loop control, Arrays, Classes and structs, Objects, Properties, Inheritance, Constructor, Deligates, Events, Namespacing, Generics, Overloading, Exception Handling, and Threading.

3.2.6 2D Animation using Flash

Course Contents: Simple Animation, Reusable objects, Movieclip symbols, Sounds, Action scripting, Controlling a timeline, Frame labels, Button symbols, Animated buttons, Publishing options. Graphics editing, Digital image editing, Color & tonal adjustment, Layers, Channels & mask, Transforming & retouching, Graphics, Effects, Logo, Logo review and redesign, Page banner and Advertising. After effects composition, Animating compositions, Scaling, Motion paths, Synchronizing motion, Adding

effects, Creating titles and animations, Exporting a movie to quicktime, Animation and Keyframe technique, Compositing video and Digital audio editing.

3.2.7 Office Automation

Course Contents: Computer Fundamentals, DOS, Windows, Word, Excel, Power Point, Internet Concepts.

3.2.8 Office Automation and Data Entry

Course Contents: Fundamentals, DOS, Windows, Word, Excel, Power Point, Internet Concepts. And Typing on Computer

Eligibility: 10+2

3.2.9 Financial Accounting using Tally

Course Contents : Accounting Basics, Voucher Types, Final Accounts, Backup & Security features.

Eligibility : The student must know Basic Computer Concepts.

3.3 Web Technologies

3.3.1 Web Designing

Course Contents : Internet Concepts, HTML, DHTML, JAVA Script, Flash, Photoshop.

Eligibility : The student must know Basic Computer Concepts.

3.3.2 ASP.Net with VB.Net

Course Contents : Web server controls, HTML, classes and objects, Server objects, sessions, cookies, ASP Objects, User Sessions and Applications, Data Interface, VB.Net Coding.

Eligibility : The student must be familiar with any Programming Language.

3.3.3 ASP.Net with C#

Course Contents : Web server controls, HTML, classes and objects, Server objects, sessions, cookies, ASP Objects, User Sessions and Applications, Data Interface, C# Coding.

Eligibility : The student must be familiar with any Programming Language.

3.3.4 J2EE

Course Contents : Java, AWT, Applets, Event Handling, JDBC, RMI, JSP, Database, Beans, Servlets.

Eligibility : The student must be familiar with any Programming Language.

3.3.5 PHP with MYSQL

Course Contents : HTML, Constructs, Functions, UDF, Database Connectivity, MySQL, User management, stored procedures.

Eligibility : The student must be familiar with any Programming Language.

3.4 Project Training Courses

3.4.1-3.4.4 Ref to 3.3 for course contents.

3.4.5 Ref to 3.7.2 for course contents.

There will be regular classroom studies for 6 weeks(60 hrs). After that the student is expected to build the project under the guidance of the faculty.

3.5 Electronics Courses

3.5.1 Certificate Course in Embedded System Design (8051 MicroController)

Course Contents: Digital Electronics, MicroController, 8051 Architecture, Interrupts, Embedded C Interfacing Peripherals, Driving Circuits, LCD interfacing, ADC (LM35), Project Work.

Eligibility : The student must know Basic Electronics.

3.5.2 VHDL Programming

Course Contents: Introduction to VHDL, VHDL Basic Terminology, Basic Language Elements, Behavioural/Dataflow/Structural Modelling, Generics and Configuration, Subprograms and Overloading, Packages and Libraries, Test Bench Design.

Eligibility : The student must know Basic Electronics.

3.6 Courses for School students

3.6.1 Beginners Course in Flash

Course Contents: Learning Toolbar, Story Boarding, Applying Motion and Shape Tweening, Action Scripting, Masking, Working with Graphics, Working with Text, Creating Interactive Navigation, Timeline and Animation.

3.6.2 Beginners Course in Photoshop

Course Contents: Learning Toolbar, Image Editing, 2-D Animation, Action, Filter effect, Feather effect, Colours theory, Masks and Channels, Retouching and Repairing, Vector Masks, Paths and Shapes.

3.7 Other Courses

3.7.1 CISCO Certification Course

Course Name: CCNA Exploration for CCENT Certification

Eligibility: Basic Knowledge of Computer(Prior knowledge of Networking not essential)

Course Modules:

1. Network Fundamentals.
2. Routing Protocols and Concepts.

Course Name: CCNA Exploration for CCNA Certification

Eligibility: Engineering/'A' or 'B' Level/BSc/MSc(IT)/MCA, Basic Computer Knowledge

Course Modules: 1. Network Fundamentals.

2. Routing Protocols and Concepts.
3. LAN switching and Wireless.
4. Accessing the WAN.

**** For CCENT Certified Module 1 & 2 are exempted.**

3.7.2 Development of Mobile Applications using Android

Course Contents: Introduction to Java, Introduction to SQL, Introduction to Eclipse IDE, Activities & Listeners, Layouts & Widgets, Communication & Media, Storage Techniques & Animation, Web Services & Customization, SQLite, Project Work.

Eligibility: Knowledge of Java

4. Fee details

4.1 Long Term Courses

S No.	Course Name	Duration	Total Fee	Instalments Payment Detail			
				At the time of Admission	Within 2 Months	Within 4 Months	Within 6 Months
1.	NIELIT IT 'O' Level Computer Course	1 Year/ (480 hrs)	15000/-	5000/-	4000/-	3000/-	3000/-
2.	NIELIT IT 'A' Level Computer Course	1 Year Full Day (1200 hrs)	30,000/-	10,000/-	8000/-	6000/-	6000/-
3.	NIELIT IT 'B' Level Computer Course	1-1/2 Year Full Day (1800 hrs)	50,000/-	Payable in 6 instalments a) During first year (Rs. 10000/-, 10000/, 8000/-,8000/-) b) During second year Rs. 7000/-,7000/- To be paid within interval of every 2 months			
4.	NIELIT Multimedia And Animation "O" Level Course	1 Year Part Time (620 hrs)	25,000/-	12,500/-			12,500/-
5.	NIELIT 'O' Level on Hardware Maintenance	1 Year Part time (480 hrs)	15,000/- + 3,500/- for bridge course	5,000/- + 3,500/-	4,000/-	3000/-	3,000/-
6.	Post Graduate Diploma in Computer Applications	1 Year Part time (520 hrs)	20,000/-	6,000/-	6,000/-	4000/-	4000/-
7.	Diploma in Computer Applications	6 months Part time (260 hrs)	12,000/-	6,000/-	6000/-	-	-
8.	Advanced Diploma in Computer Applications.	6 months Part time (260 hrs)	12,000/-	6,000/-	6000/-	-	-
9.	Diploma in Software Technologies	6 months Full Day (520 hrs)	35,000/-	20,000/-	15,000/-	-	-
10.	Diploma in Computer Hardware & Networking	1 Year Part time (480 hrs)	15,000/-	5,000/-	4000/-	3,000/-	3,000/-
11.	Advanced Course in Multimedia & Animation	6 months Part time(260 hrs)	25,000/-	16,000/-	9,000/-	-	-

12.	Diploma in .Net Technologies (PGDST-1 of PG Diploma in Software Technologies)	6 months Part time (260 hrs)	20,000/-	12,000/-	8,000/-	-	-
13.	Diploma in Java Technologies (PGDST-2 of PG Diploma in Software Technologies)	6 months Part time (260 hrs)	20,000/-	12,000/-	8,000/-	-	-

- * ALL STATUTORY TAXES, DUTIES, LEVIES ETC. AS APPLICABLE FROM TIME TO TIME SHALL BE EXTRA.
- * S.Tax at the current rate shall be charged extra with each instalment.
- * No S.Tax shall be charged for the NIELIT courses mentioned at Sr. No. 1,2, 3.

4.2 Short Term Courses (To be paid in single instalment)

Sno	Course Name	Duration (weeks)(10 hrs per week)	Fee (in Rs.)
1.	C/C++	8	7200
2.	Programming through C	4	4800
3.	Programming through Python	6	6000
4.	Programming through C++	6	6000
5.	Programming through C#	4	4800
6.	2D Animation using Flash	6	7200
7.	Office Automation / Certificate Course in Computer Concepts	6	3000
8.	Data Entry and Office Automation	6	5000
9.	Financial Accounting Using Tally	4	4800

4.3 Web Technology Courses

The course with 6 weeks duration will not cover project and courses with 8 week duration will cover a project.

Sno	Course Name	Duration (weeks)	Fee (in Rs.)	Duration (weeks)	Fee (in Rs.)
1.	Web Designing	6	5400	--	--
2.	ASP.Net with VB	6	6000	8	7200
3.	ASP.Net with C#	6	6000	8	7200

4.	J2EE	6	6000	8	7200
5.	PHP with MySQL	6	6000	8	7200

4.4 Project Training Courses

There will be regular classroom studies for 6 weeks(60 hrs). After that the student is expected to build the project under the guidance by the faculty.

Sno	Course Name	Duration (weeks)	Fee (in Rs.)
1.	ASP.Net with VB	26	10000
2.	ASP.Net with C#	26	10000
3.	J2EE	26	10000
4.	PHP with MySQL	26	10000
5.	Mobile Applications using Android	26	20000

4.5 Electronics Courses

Sno	Course Name	Duration (weeks)	Fee (in Rs.)
1.	Embedded Systems(8051 Microcontroller)	6	8000
2.	Embedded Systems with Project	8	9,000
3.	VHDL	6	6,000
4.	VHDL with Project	8	7,200

4.6 School Students Courses

Sno	Course Name	Duration (weeks-10 hrs a week)	Fee (in Rs.)
1.	Beginners course in Photoshop	3	4,000
2.	Beginners course in Flash	4	5,000

4.7 Other Courses

Sno	Course Name	Duration (weeks)	Fee (in Rs.)
1.	Cisco Certified Courses		
	CCNA Exploration for CCENT Certification (Module 1 & 2)	8	10,000/-
	CCNA Exploration for CCNA Certification (Module 3 & 4)	12	12,500/-
	CCNA Exploration for CCNA Certification (All four Modules)	20	20,000/-
2.	Mobile Applications Development using Android	8	15,000/-

- * **ALL STATUTORY TAXES, DUTIES, LEVIES ETC. AS APPLICABLE FROM TIME TO TIME SHALL BE EXTRA.**
- * **NIELIT, Delhi reserves its right to cancel any course without assigning any reason.**
- * **All modules of 'O' , 'A' and 'B' level can be done individually @ Rs. 3500/- and no S.Tax to be charged on this.**

5. Achievements

5.1 Training Imparted by the Centre

- Trained more than 5,700 participants so far in various disciplines of ICT education.
- It has imparted training to Judicial Magistrates of Hon'ble Supreme Court, High Court of Delhi & District Courts.
- Undertaken turnkey ICT education project for Delhi Schools.
- Corporate Training for DACNET, NPPA, ITBP, Sports Authority of India, Delhi Police, NICD, Staff Training Institute (Delhi Doordarshan), Department of Women and Child Development etc.

5.2 Turnkey Projects Executed

- Computerization of G. B. Pant Hospital, Dr. RML Hospital and Maulana Azad Medical College.
- Computerization of Delhi SC/ST/OBC Financial Development Corporation.
- Computerization of Delhi Commission or Women and NDMC.

5.3 Major Projects Undertaken

- Undertaken IT Planning for DTC, DHS, Dept. of Post, Dept. of Irrigation and Flood Control, Delhi Financial Development Corporation
- Delhi Centre has been empanelled by DietY, Govt. of NCT of Delhi for Design, Development and maintenance of website and web-applications since 2002. It has designed & developed websites of 65 departments of NCT of Delhi, PSU & autonomous bodies of Govt. of India.

5.4 Recent Corporate Training Programmes

1. Telecom Regulatory Authority of India, New Delhi.
2. Department of IT, New Delhi.
3. Delhi Transco Ltd., New Delhi.
4. Delhi Jal Board.
5. Municipal Corporation, New Delhi.
6. Staff Training Institute (Technical), Delhi Doordarshan, New Delhi.
7. National Academy for Statistical Administration
8. O/o Controller General of Accounts

5.5 Software Development and Total IT Solution

Total IT solutions have been provided to some hospitals of New Delhi :-

- Maulana Azad Medical College.
- Ram Manohar Lohia Hospital.
- G.B.Pant Hospital

5.6 Recent Achievements

Sponsored training programmes being executed:

- Training the weaker Sections of the Society since March 2008 as per the notification of the SC/ST Commission so as to provide an opportunity for the potential candidates to build their future in the IT field.
- Further, the training of SC/ST Candidates registered by employment exchange by running Special O-Level batches has been taken up by the Centre since July 2009 under SC/ST Job Seekers training.
- Providing free IT training to Women of Delhi having income less than 5Lac per annum for enhancing their employability.

6. Placements

Job Opportunities

A brilliant career awaits the students who have qualified various courses provided by this Centre. We have been running various training courses at different proficiency levels for all types of participants. The Centre imparts various long term courses like NIELIT 'O', 'A', 'B' Level that makes a candidate eligible for jobs in various Govt/Pvt. Organisations at the level of Asst. Programmers, Programmers, Software Engineers respectively. Further the candidates who have completed their basic qualification like graduation can hone their IT skills by undertaking various specialised courses like .NET Technologies, J2EE, LAMP, Information Security, Embedded System etc. offered by this Centre.

The students aspiring to become Network Administrators can undergo a course of Cisco Certified Network Associate (CCNA) Certification run by the Centre (as Cisco's Local Academy). Students, who have another avenue to excel and get good jobs in the IT market, can join an Oracle Certified Course run by the Centre and become Oracle Certified Professionals and make a mark in the IT Industry.

Placement

Many of our students have brought laurels to the Centre, for they have been placed in every known sphere of the IT field. Our students have shown their capabilities in the following areas:

- Project Leaders in various Software Development Projects.
- Technical Writing.
- Database administration.
- Network administration.
- Software Testing.
- Desktop Publishing and Designing.
- Web Designing.
- Systems Analyst, Programmer, EDP Manager and Web Optimization etc.

As a result of their sincere and hard working efforts they have been placed in known MNCs with handsome salary packages.