3. DOEACC 'A' Level Course

Objective of the 'A' Level Course

An 'A' Level qualifier is expected to be key member of a software development team with all round capabilities to manage and guide a software project. In order to develop these capabilities the 'A' level course has been so designed that a student acquires an in-depth knowledge of the key areas like the computer software, office automation products ,knowledge of developing a business system module using database packages, problem solving skills using programming languages, computer architecture, software development life cycle, data-structure, database management system, operating system, practical exposure to UNIX/LINUX and communication principles and computer networking, object oriented programming using C++/ Java, and multimedia application

NIELIT 'A' Level Course consists of ten theory modules (nine compulsory modules and one elective module), two Practicals and one Project. The structure of the 'A' Level syllabus is indicated below:-

Paper Code	Subject
A1-R4	IT Tools and Business System
A2-R4	Internet Technology and Web Design
A3-R4	Programming and Problem Solving Through 'C' Language
A4-R4	Computer System Architecture
A5-R4	Structured System Analysis and Design
A6-R4	Data Structures through 'C++'
A7-R4	Introduction to Database Management System
A8-R4	Basics 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 -1(Based on A1, A2, A3, A4 module syllabus)
PR-2	Practical -2 (based on A5,A6,A7,A8,A9,A10 modules syllabus)
PJ	Project

All 'O' and 'A' Level Candidates under the revised syllabi (Revision 4) shall have to qualify the Practical Examination, in addition to qualifying the theory examinations as well as the Project Work. The students have to devote half of the total time allotted to each module for the practical session. Practical assignments have been worked out for each theory paper. At 'A' Level, there are two Practical Examinations. The Practical-1 examination will be based on the syllabi A1-R4, A2-R4, A3-R4 and A4-R4 modules and Practical -2 will be based on the syllabi A5-R4, A6-R4, A7-R4, A8-R4, A9-R4 and A10-R4 modules of the 'A' Level course.

PROJECT

NIELIT curriculum has a project as an important component of 'A' Level course. The Project is carried out by the student under guidance and support of faculty and management of the respective institute. It is felt that such a project provides an opportunity to the student to apply his/her knowledge and skills to real life problems (including oral and written communication skills), and as such the project should be given utmost importance and priority both by the students as well as institution faculty / management in respect of its identification, planning and implementation.

Course Duration	:	***One Year***
Course Fee	:	***Rs.25000/- Payable in installments******
Installment details :		
At the time of Admission	:	*Rs.10000/-*
Within 2 months	:	*Rs.6000/-*
Within 4 months	:	*Rs.5000/-*
Within 6 months	:	*Rs.4000/-*

Eligibility : *'O' Level / Government recognized polytechnic engineering diploma after 10th pass), followed in each case, by an accredited 'A' level course (no concurrency).*

Or

A Government recognized polytechnic engineering diploma course after 10+2 pass / Graduate and an accredited, 'A' level course in each case (may be concurrent). (A level diploma will be awarded only after successful completion of the academic stream, i.e., polytechnic engineering diploma, after 10+2 or degree)

Cut-off Dates for 'O', 'CHM-O' and 'A' Level

January Exams	:	***Preceding 30th June***
July Exams	:	***Preceding 31st December***