(NIELIT 'O' LEVEL)

BIDL
BHATTI INSTITUTE OF DIGITAL LITERACY
An ISO 9001:2015 Certified Institute

रा.इ.सू.प्रौ.सं
NIELIT

Course Overview

NIELIT 'O' level course of NIELIT (DOEACC) Scheme is equivalent to a Foundation Level Course in Computer Applications. Students can acquire this qualification by undergoing this course and passing the examination conducted by NIELIT. After completion of 'O' Level course, students can further enroll for next level IT course of NIELIT 'A' level.

Duration: 1 Year (520 Hours) **Eligibility:** 10+2/ITI/Polytechnic Diploma **NSQF Level:** 5

Objective of the 'O' Level Course

- Programmer
- Jr. Programmer
- Computer Teacher
- User Interface (UI) Designer
- Web Designer
- Web Publication Assistant
- Office Automation Assistant
- IoT Application Integrator

Note: Diploma of 'O' Level is valid in Haryana Govt. as (DHBVNL, Haryana Police, SSC, HUDA etc.), FCI, AICTE, A.I.U., U.P.S.C., Staff Selection Commission, Kendriya Vidyalaya, Parliament of India, Insurance Cos., Banks, Railway & all other Central & State Govt. Deptt. etc. for the purpose of employment.

Syllabus for O Level Course –

Module 1. M1-R5: IT Tools & Basics of Networks

- Introduction to Computer
- Introduction to Operating System
- Word Processing
- Spreadsheet
- Presentation
- Introduction to Internet and WWW
- E-mail, Social Networking and e-Governance Services
- Digital Financial Tools and Applications
- Overview of Future skills and Cyber Security

Module 2: M2-R5: Web Designing & Publishing

- Introduction to Web Design
- Editors
- HTML
- CSS
- CSS Framework
- JavaScript
- Angular JS
- Photo Editor (Photoshop)
- Web Publishing and Browsing

(Publish and Hosting)

Module 3: M3-R5: Programming and Problem Solving though Python Language

- Introduction to Programming
- Algorithms and Flowcharts to Solve Problems
- Introduction to Python
- Operators, Expressions and Python Statements
- Sequence Data Types
- Functions
- File Processing
- Scope and Modules
- NumPy Basics

Module 4: M4-R5: Introduction to Internet of Things (IoT) and its Applications

- Introduction to Internet of Things applications
    - Devices, Protocols, Communication model.
- Things and Connections
- Sensors, Actuators and Microcontrollers
- Building IoT applications
- Security and Future of IoT ecosystem
- Soft Skills-Personality Development