



3, 1/1, Fernando Road, Wellawatta  
Colombo 6

☎ 0112 363632 / 0112 364567 / 0777996242

Web: [www.aict.lk](http://www.aict.lk)

Reg No: W/P 81396

## Advanced Information Technology

### Detail Syllabus

#### 1. Fundamentals of

- 1.1.1. Information Technology
- 1.1.2. Information System

#### 2. MS Office Package

- 2.1.1. MS Word
- 2.1.2. MS Excel
- 2.1.3. MS Access
- 2.1.4. MS PowerPoint

#### 3. Graphic Designing

- 3.1.1. Photoshop CC 2021
- 3.1.2. Coral Draw 2021
- 3.1.3. Illustrator CC 2021

Introduction to Adobe InDesign for Page Make-up

Creating Graphics using Illustrator

Colour Theory & Color management

Photoshop as Graphic Image manipulation

Photoshop and Tools

Image Composition & Image manipulation

Color Corrections & Adjustment

Masking systems in Photoshop

2D-3D in Photoshop

Image Modes & Blending Modes

Channels & Basic Palettes

Creating Logos and Designs using Coral Draw

#### 4. Computerized Accounting

- 4.1. Tally 9 ERP
- 4.2. QuickBooks

The following areas are covered by using the above-listed packages

~Cash Book

~General Ledger, Journal

~Bank Reconciliation

~Debtors & Creditors Ledger

~Sales & Purchase Registers

~Fixed Asset Register

~Stock & Inventory Control

- ~Pay Sheet
- ~Profit & Loss Accounts
- ~Balance Sheet
- ~Ratios, Comparisons
- ~Forecast, Budgets & Variances

## **5. Programming in VB.Net or VB.Net C#**

- 5.1. Developing .NET Business Applications
- 5.2. Object-Oriented Programming with Visual Basic Designing classes with encapsulation
- 5.3. Applying inheritance
- 5.4. Employing polymorphism
- 5.5. Engaging the .NET Framework Common Language Runtime (CLR)
- 5.6. Surveying the .NET Framework Class Library
- 5.7. Programming web user interfaces
- 5.8. Constructing .NET desktop applications
- 5.9. Accessing Data with Entity Framework and LINQ Connecting to databases with ADO.NET
- 5.10. Mapping objects to databases with ADO.NET Entity Framework
- 5.11. Integrating query into Visual Basic with LINQ
- 5.12. Deploying Visual Basic Applications

## **6. Web Development**

- 6.1. HTML
- 6.2. CSS & Boot Strap
- 6.3. JavaScript
- 6.4. PHP & Frame Work
- 6.5. MYSQL
- 6.6. Ajax
- 6.7. JQuery
- 6.8. Apache
- 6.9. XML
- 6.10. Wordpress
- 6.11. Joomla

## **7. Computer Hardware & Networking**

- 7.1. Introduction to PC Hardware
- 7.2. Identify Hardware Components
- 7.3. Motherboard Components & Bus Architecture
- 7.4. The CPU Evolution & Architecture
- 7.5. Types of RAM
- 7.6. Identifying different types of Expansion cards
- 7.7. Assembling and disassembling of different types of PCs (Using Simulator)
- 7.8. Hard disk architecture
- 7.9. Preparing the hard disk drive to install system software
- 7.10. Installing and configuring Windows 10
- 7.11. Troubleshooting & Maintenance
- 7.12. Introduction to Computer Networks
- 7.13. Different Types of Architectures of Computer Networks
- 7.14. IP Addressing & Subnetting
- 7.15. Network Devices
- 7.16. Designing the Network