Certificate in Computer Applications (CCA)



# CCA-101: Fundamentals of IT & Programming

## **Course Objective**

This subject aims to introduce skills relating to basic concepts and terminology of information technology & programming.

### **Course Outcomes**

At the end of this course, student should be able to:

- 1. Understand basic concepts of I.T.
- 2. Have a basic understanding of personal computers and theiroperations.
- 3. Able to use MS officetools.
- 4. Understand basics of Programming.

### **Course Outline**

### **Unit I Introduction**

**Introduction to computers:** definitions, evolution, characteristics, Organization of a Computer, Classifications, Distributed Computers, Parallel Computers.

**Computer Memory:** Random Access Memory (RAM), Read Only Memory (ROM), External Memory (Secondary Memory), Compact Disk Read Only Memory, Magnetic Storage Drives, USB. **Software:** Types of S/W - System Software: Operating System, Utility Programs Application Software, Overview of proprietary software, Overview of open source technology.

### **UNIT II Introduction to MS Word**

**MS Word Processing basics**: Menu Bar, Using The Icons Below Menu Bar; Opening and closing Documents: Save and Save as, Page Setup, Print Preview.

**Text Creation and manipulation:** Document Creation, Editing Text, Text Selection, Cut, Copy and Paste, Spell check.

**Formatting the Text:**Font and Size selection, Alignment of Text,Paragraph Indenting, Bullets and Numbering, Changing case;

**Formatting a document:** Set page margin, paragraphs and sections within a document, Adjust indents and hanging indents;

Table Manipulation: Draw Table, Changing cell width and height, Alignment of Text in cell, Delete

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/ Insertion of row and column Border and shading, Table Formula.

#### **UNIT III Spreadsheets and Presentations**

**Spread Sheet:** Opening of Spread Sheet, Addressing of Cells, Printing of Spread Sheet, Saving Workbooks.

**Manipulation of Cells:** Entering Text, Numbers and Dates, Creating Text, Number and Date Series, Editing Worksheet Data, Inserting and Deleting Rows, Column, Changing Cell Height and Width.

**Formulas and Function:** Using Formulas, Function, basic mathematical operators, using AutoSum etc., using formulas with multiple cell references;

**Presentation** - Basic Concepts of presentation: Using PowerPoint, Opening A Power Point Presentation, Saving A Presentation; Creation of Presentation using a Template, Creating a Blank Presentation, Entering and Editing Text, Inserting and Deleting Slides in a Presentation; **Preparation of Slides:** Inserting Word Table or An Excel Worksheet, Inserting Other Objects,

#### **UNIT IV Introduction to Programming**

**Programming Language:** Machine Language, Assembly Language, High Level Language their advantages & disadvantages. Basic concepts – data types and its representation in programming, basic arithmetic operations – addition, multiplication, division, modulus; conditional checks, relational and comparisons and loops

#### **Reference books**

- 1. Introduction to Information Systems, James O'Brien, George Marakas, TMH
- 2. "Information Technology for Management", (2010) Behl, Ramesh, 1st Ed Tata McGraw Hill, NewDelhi
- 3. Alexis & Mathews: "Fundamentals of Information Technology", VikasPublication.
- 4. Turban Information technology for Management : Transforming Organization in Digital Economy 7/e-Wiley
- 5. Henry Lucas, Information Technology For Management, TMH