

# Advanced Diploma in Computer Applications (3 Years Program)

## ADCA

6 Months = Days-182, Working Days=140 Days, Teaching/ Practical=Hrs 1 Hrs / Day

### Project / Assignment

#### DCA-I

#### Second Semester

PAPER	TOPIC	Hrs	Days	Marks
DCA105	Presentation Application	5	5	25
	Lab Work: PowerPoint	5	5	--
DCA106	Programming Logic & Techniques	5	5	25
DCA107	Fundamental of C++	30	30	25
	Lab Work: C++	30	30	--
DCA108	Object Oriented Programming in C++	30	30	25
	Lab Work: C++	35	35	--
PRJ101	Project I Work with C++ Programming	--	--	50
<b>Total</b>		140	140	150

### Second Semester - Detailed Syllabus

#### Unit I: Presentation Application

Understanding MS PowerPoint, Manage Presentations, Change presentation Options and Views, Creating Presentation Using Templates, Configure, print settings, Manage Slides, Insert & Format Images, Master Slide, Apply Transitions & Animations.

#### Unit II: Programming Logic Techniques

Understanding Programming Logic Techniques, Algorithms, Flow Chart.

#### Unit III: Fundamental of C++

Applications of C++, Data Types, Declaring & Initializing Variables, Header Files, Operators, Comments in C++, Conditional Statement, Control Statement, Array and Its types, Strings, String related functions, Structures, Limitations of structures, Array of structure, Pointers, Functions, Call by Value & Call By References, Recursion.

#### Unit IV: Object Oriented Programming in C++

Object Oriented Programming Paradigm, Basic Concepts of Object-Oriented Programming, Class and Objects, Accessing class members. Defining member functions, Arrays of Objects, Friend Function, Constructors, Types of Constructors, Destructor, Inheritance, Types of Inheritance, File Handling in C++.