## Laboratory Course - IV (Based on Paper No. BC41601 and BC41602)

Semester IV Subject Code: BCP41606 Lectures: 60

## **Objectives:**

The syllabus aims in equipping students with,

- To implement OOP'S Concepts using C++
- To work with Strings and Files in C++
- To understand VB IDE
- Writing VB application with basic VB control
- To implement VB application With Advance ActiveX control
- To use VB as front-end for database connectivity and generate Data Reports

• Assignment to demonstrate		24
	Working with Strings	
>	OOP's concepts	
	<ul> <li>Inheritance (Types of Inheritance): Single, Multilevel,</li> </ul>	
	<ul> <li>Multiple, Hybrid</li> </ul>	
	<ul> <li>Polymorphism( Compile Time and Run Time Polymorphism):</li> </ul>	
	Assignment on Operator overloading	
	Assignment on Function overloading	
	•	
	Assignment on Virtual function	
	Managing I/O using Manipulators	
>	Working with Files: insert, update and delete	

Unit 2: Programming in Visual Basic  • Assignment to demonstrate	
Implementation of Advance VB Controls	
Use of Graphics in VB	
➤ VB Programs using ActiveX Control	



- ➤ Use of VB as Front-end (using ADODC and ADODB)
- > Implementation of Data Report, Crystal report

## \*Contact hours - 12 hours

## Reference Books:

- 1. Evangelos Petroutsos , Mastering Visual Basic, BPB publication
- 2. Steven Holzner, Visual Basic 6 Programming Black Book, Dreamtech publication
- 3. Gerg Perry, Learn VB in 21 days, Techmedia Publication
- 4. E Balaguruswamy Object Oriented Programming with C++, 5th edition; 2006.
- 5. Schildt, The Complete Reference C++, 5th edition; 2006.



36