

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

Semester IV	Subject Code: BCP41606	Lectures: 60
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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

Unit 1: OOP'S Using C++	24
<ul style="list-style-type: none"> • Assignment to demonstrate <ul style="list-style-type: none"> ➤ Creation of Classes an objects ➤ Working with Strings ➤ OOP's concepts <ul style="list-style-type: none"> ▪ Inheritance (Types of Inheritance): Single, Multilevel, ▪ Multiple, Hybrid ▪ Polymorphism(Compile Time and Run Time Polymorphism): ▪ 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	24
<ul style="list-style-type: none"> • Assignment to demonstrate <ul style="list-style-type: none"> ➤ Use of Basic VB Control ➤ Implementation of Advance VB Controls ➤ Use of Graphics in VB ➤ VB Programs using ActiveX Control 	



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

***Contact hours – 12 hours**

Reference Books:

1. Evangelos Petroustos ,*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.

