

**Programming in Visual Basic**

<b>Semester VI</b>	<b>Subject Code: BC41602</b>	<b>Lectures: 60</b>
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<b>Objectives:</b>
<p>The course is designed to equip students,</p> <ul style="list-style-type: none"> <li>• To learn properties and events, methods of controls</li> <li>• How to handle events of different controls.</li> <li>• To understand the use of active X controls</li> <li>• How to design VB application</li> <li>• To learn database connectivity using VB as frontend.</li> </ul>

<b>Unit 1: VB 6 Basics</b>	<b>10</b>
<ul style="list-style-type: none"> <li>• Introduction to VB IDE</li> <li>• VB as Event Driven Programming language</li> <li>• Working with Properties and Events of a Form</li> <li>• Constant, Variables, Data Types</li> <li>• Operators</li> <li>• Control Structures             <ul style="list-style-type: none"> <li>➤ If</li> <li>➤ If...Else</li> <li>➤ Nested If...Else</li> <li>➤ Select Case</li> </ul> </li> <li>• Looping structures             <ul style="list-style-type: none"> <li>➤ Do Loop</li> <li>➤ While Loop</li> <li>➤ Until Loop</li> <li>➤ For Loop</li> <li>➤ With Statement</li> </ul> </li> <li>• Array (Single Dimensional, Multidimensional Array, Control Array)</li> <li>• Functions (Built in and user defined)</li> </ul>	

<b>Unit 2: Working with Controls and Menus</b>	<b>10</b>
<ul style="list-style-type: none"> <li>• Introduction to VB Control and its Types</li> <li>• Working with Properties and methods of each controls</li> <li>• Creating an Single Form Application and multiple form application</li> </ul>	



<ul style="list-style-type: none"> <li>• Creating properties and methods in form</li> <li>• Working with menus</li> <li>• Popup menu</li> <li>• Adding and Deleting menus at Run-Time</li> </ul>	
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Unit 3: Handling Controls at Run Time and Working with Graphics	06
<ul style="list-style-type: none"> <li>• How to add controls at run time</li> <li>• How to work with "With block"</li> <li>• Graphics Methods Vs. Graphics Controls</li> <li>• Redrawing Graphics in Windows: AutoRedraw and paint</li> <li>• Clearing the Drawing Area, Setting colors, Drawing Text, Working with fonts</li> <li>• Drawing Lines, Boxes, Circles, Arcs</li> </ul>	

Unit 4: Working with ActiveX Controls	12
<ul style="list-style-type: none"> <li>• Working with status Bar</li> <li>• Working with progress bar</li> <li>• Working with Toolbar</li> <li>• Setting up the Image List controls ( Adding and Deleting images with code)</li> <li>• Working with DTPicker</li> <li>• Working with MSFlexGrid</li> <li>• Working with Microsoft common dialog control</li> <li>• Working with Tree View and List view control</li> </ul>	

Unit 5 :- Working With Database	10
<ul style="list-style-type: none"> <li>• ADO data Control</li> <li>• Studying the properties and methods of ADODC</li> <li>• Connectivity with MS-Access</li> <li>• DataGrid control</li> <li>• Connectivity with Oracle</li> <li>• ADODB objects (Connection, Command, Recordset)</li> <li>• Using ADODB Objects for Database connectivity</li> <li>• Developing ADO Application through ADODC and ADODB</li> <li>• Report Generation with DataReport, Crystal report</li> </ul>	



**\*Contact hours – 12 hours**

**Recommended Text Book:**

- ✓ 1. *Programming in Visual Basic*, Somavanshi Vision Publication 2014
- ✓ 2. *Programming in Visual Basic*, Gajanan Deshmukh, U.Shirshetti Nirali Prakashan 2014

**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

