



**BHAVAN'S B.P. VIDYA MANDIR**

**SYLLABUS SPLIT-UP**

**SESSION - 2011-'12**

**STD. IV - X**

**COMPUTER SCIENCE**

**Standard : IV**  
**Introduction to Computer**

<b>Month</b>	<b>Portion to be covered.</b>
<b>June / July</b>	Block diagram of a computer (ALU, CU, Memory) Input & Output Units with examples (Keyboard, Mouse, Monitor, Printer, Scanner, Speaker) Primary & Secondary memory (RAM,ROM, HARD DISK) Practical – MS-Paint brush
<b>August</b>	Paint brush [Tools to be used: Rectangle, Rounded Rectangle, Ellipse, Fill color, Text Box, Eraser, Text Select, Magnifier, Pick Color, Air Brush, Pencil, Curve Line, Polygon] Practicals –Paint brush
<b>September</b>	Calculator (Use of numeric pad, Functions Like +, -, *, /)
	<b>Revision &amp; Practical for Evaluation I</b>
<b>October</b>	Wordpad (File , Edit Menu) File Menu options: new , open, save, save as, print, exit Edit menu options: undo, cut , copy , paste, clear, select all, find , find next, replace
<b>November</b>	Word pad (View, Insert ) View menu options: Tool bar, format bar, ruler, status bar Insert menu options: date and time, object
<b>December</b>	Format menu options: font, bullet style Storage Devices 3.5 FD , pen drive, CD, DVD , Blue Ray Disk (BD) [1 line definition]
<b>January</b>	<b>Revision &amp; Practical for Evaluation II</b> Introduction to PowerPoint [ Slide definition, steps to create presentation, one line definition for custom animation, slide transition and view show] Slides to be explained: Blank, Text only, Text and ClipArt
<b>February</b>	What is Software & Hardware? Binary Number System: 0, 1 & Binary Digit (Bit) Conversion (Decimal to Binary) Data Representation (bit, byte etc.....)
<b>March</b>	<b>Revision &amp; Practical for Evaluation III</b>

**Standard V**  
**LOGO(Language of Graphical Oriented Graphics)**

Month	Portion to be covered.
<b>July</b>	<ul style="list-style-type: none"> <li>❖ Introduction to LOGO</li> <li>❖ Logo commands (Draw, FD, BK, RT, LT, BYE, HOME)</li> <li>❖ Practical : Figures based on above mentioned commands</li> </ul>
<b>August</b>	<ul style="list-style-type: none"> <li>❖ HT, ST, PRINT [ Message and mathematical operations] , CS, PU, PD,PE</li> </ul>
<b>September</b>	<ul style="list-style-type: none"> <li>❖ <b>I EVALUATION by 09<sup>th</sup> September [Practical and Theory]</b></li> <li>❖ SUM, PRODUCT, QUOTIENT, REMAINDER</li> </ul>
<b>October</b>	<ul style="list-style-type: none"> <li>❖ FIRST, LAST, BL, BF, WORD, COUNT</li> </ul>
<b>November</b>	<ul style="list-style-type: none"> <li>❖ Repeat and nested repeat</li> </ul>
<b>December</b>	<ul style="list-style-type: none"> <li>❖ SET BG, ST PC, SETPALLETE, SETSCRUNCH</li> <li>❖ <b>Practical exam before X'mas vacation</b></li> </ul>
<b>January</b>	<ul style="list-style-type: none"> <li>❖ <b>II – EVALUATION ( THEORY )</b></li> <li>❖ What is a word processor?</li> <li>❖ Features of word processors ( Only Name )</li> <li>❖ Steps to start MS-Word &amp; major components,</li> <li>❖ Creating / opening / saving documents,</li> <li>❖ Exiting Word</li> </ul>
<b>February</b>	<ul style="list-style-type: none"> <li>❖ Text Selection : <i>Selecting , copying, moving, deleting text (Using keyboard and Mouse)</i></li> <li>❖ Shortcut Keys (Cut, Copy, Paste, Bold, Italic, Underline, Undo, Redo, save, select all)</li> <li>❖ Fonts, styles and sizes, Text attributes[superscript, subscript].</li> </ul>
<b>March</b>	<ul style="list-style-type: none"> <li>❖ Line Spacing, Change Case, Drop Cap</li> <li>❖ Inserting graphics in Word <i>Inserting Autoshapes, Inserting Word Art</i></li> <li>❖ <i>Tables</i></li> <li>❖ <b>III – Evaluation Practical Exam</b></li> </ul>
<b>April</b>	<ul style="list-style-type: none"> <li>❖ Revision</li> <li>❖ <b>III – EVALUATION ( THEORY )</b></li> </ul>

**Standard VI  
MS-Excel**

<b>Month</b>	<b>Portion to be covered.</b>
<b>June &amp; July:</b>	<ul style="list-style-type: none"> <li>❖ MS-Excel Basics</li> <li>❖ Worksheet, row no., column letter, cells, cell pointer, range of cells, status bar, menu bar &amp; toolbars, workbook.</li> <li>❖ Entering data in worksheet, Saving and Retrieving a worksheet.</li> <li>❖ Working with Formulas</li> <li>❖ Using Operators , AutoSum, dragging the formula by AutoFill Handle</li> </ul>
<b>August</b>	<ul style="list-style-type: none"> <li>❖ Editing Cell Contents:</li> <li>❖ Selecting, copying, moving, erasing/clearing range,</li> <li>❖ Insert Comment</li> </ul>
<b>September</b>	<ul style="list-style-type: none"> <li>❖ Erasing a worksheet (all, content, format, comment)</li> <li>❖ Mathematical Functions- Sum, Average, Count, Max, Min, Abs, Int, Mode.</li> <li>❖ <b>SA – I</b></li> </ul>
<b>October</b>	<ul style="list-style-type: none"> <li>❖ Logical Functions – IF.</li> </ul>
<b>November</b>	<ul style="list-style-type: none"> <li>❖ Inserting cells/row/column in worksheet,</li> <li>❖ Deleting cells/row/column in worksheet.</li> </ul>
<b>December</b>	<ul style="list-style-type: none"> <li>❖ Formatting cell [Number,Text – steps]</li> <li>❖ Merge and centre using formatting tool bar.</li> </ul>
<b>January</b>	<ul style="list-style-type: none"> <li>❖ Sorting and auto filter</li> <li>❖ Charts in Excel: components of chart, creating and saving chart.</li> </ul>
<b>February</b>	<ul style="list-style-type: none"> <li>❖ Types of charts(line, column, pie)</li> <li>❖ Fundamentals of Networking:</li> <li>❖ What is network?</li> <li>❖ Types of network (LAN,MAN,WAN,PAN)</li> <li>❖ Advantages and uses of network.</li> <li>❖ Introduction to Flash [note: practical should be started along with fundamental of networking]</li> <li>❖ Flash practical               <ul style="list-style-type: none"> <li>❖ Motion tween</li> <li>❖ Shape tween</li> <li>❖ Masking</li> <li>❖ Bouncing effect</li> <li>❖ Photo-gallery</li> <li>❖ Motion guide [optional]</li> </ul> </li> </ul>
<b>March</b>	<ul style="list-style-type: none"> <li>❖ Intro. To INTERNET</li> <li>❖ Applications of Internet(E-mail, Chatting, Surfing).</li> <li>❖ Social Network sites.</li> <li>❖ <b>SA - II</b></li> </ul>

**Standard VII**  
**HTML (Hyper Text Markup Language)**

<b>Month</b>	<b>Portion to be covered.</b>
<b>June &amp; July:</b>	<ul style="list-style-type: none"> <li>❖ Introduction of Internet: What is Internet? What are its uses? What is a Web sites, Web pages Web Browsers?</li> <li>❖ Introduction to web page designing using HTML: What is HTML, HTML document Structure               <ul style="list-style-type: none"> <li>○ Creating, Saving and Viewing HTML Documents</li> <li>○ Container and empty elements (Def. with eg.)</li> </ul> </li> </ul>
<b>August</b>	<ul style="list-style-type: none"> <li>❖ Basic HTML tags:               <ul style="list-style-type: none"> <li>○ HTML tag (attribute: dir)</li> <li>○ HEAD tag</li> <li>○ TITLE tag</li> <li>○ BODY tag (attribute: bgcolor, text, background, topmargin, leftmargin )</li> </ul> </li> </ul>
<b>September</b>	<ul style="list-style-type: none"> <li>❖ Headings in HTML (H1 to H6), Attribute: align</li> <li>❖ Horizontal Line, HR tag, attribute: width, size, color, align, noshade</li> <li>❖ BR, P tag , Font Tag attribute: face, color, size</li> <li>❖ Text formatting tags : B,I,U, Sup, Sub, Center</li> </ul>
<b>October</b>	<ul style="list-style-type: none"> <li>❖ <b>SA - I</b></li> <li>❖ Marquee (Behavior, direction)</li> </ul>
<b>November</b>	Inserting Images; IMG tag, SRC attribute , align, width, height, alt
<b>December</b>	❖ List in HTML : OL & UL tag, attribute type, start
<b>January</b>	<ul style="list-style-type: none"> <li>❖ Linking:               <ul style="list-style-type: none"> <li>○ What is linking? Type of linking (external &amp; internal)                   <ul style="list-style-type: none"> <li>▪ "A" tag, attribute href, name</li> </ul> </li> <li>○ Body tag, attribute alink, vlink, link</li> </ul> </li> </ul>
<b>February</b>	❖ Tables : Border, Align, Width, CellSpacing, CellPadding, TD, TH, TR, Rowspan, Colspan
<b>March</b>	<ul style="list-style-type: none"> <li>❖ Revision</li> <li>❖ <b>SA -II</b></li> </ul>

**Standard VIII**  
**FoxPro**

<b>Month</b>	<b>Portion to be covered.</b>
<b>June &amp; July:</b>	<ul style="list-style-type: none"> <li>❖ What is DBMS, Database, Foxpro?</li> <li>❖ Datatypes (C, N, D, L)</li> <li>❖ Create, Modi Struct, Append, Display Struct commands.</li> <li>❖ Opening &amp; Closing a DBF(Use)</li> <li>❖ List Command + Operators (All)</li> <li>❖ Display Command</li> </ul>
<b>August</b>	<ul style="list-style-type: none"> <li>❖ BROWSE command (Goto, Delete, Append, Change, Move Field)</li> <li>❖ SORT command</li> <li>❖ Inroduction to Foxpro programming – Modi Command, Do Command (Ctrl+w)(What is Program ? Why programming is need?)</li> </ul>
<b>September</b>	<ul style="list-style-type: none"> <li>❖ What is Memory Variable ? (How to create Memory variable ?, STORE Command)</li> <li>❖ Input – Output Statements( @ Say, Get, Read)</li> <li>❖ Simple programs using Memory variable)</li> <li>❖ <b>SA –I</b></li> </ul>
<b>October</b>	<ul style="list-style-type: none"> <li>❖ Conditional Statement (IF.... ELSE.....ENDIF, NESTED IF)</li> <li>❖ Simple programs using IF</li> </ul>
<b>November</b>	<ul style="list-style-type: none"> <li>❖ Looping statements (FOR..... ENDFOR, DO WHILE....ENDDO)</li> <li>❖ Simple programs using FOR &amp; DO WHILE</li> <li>❖ REPLACE &amp; REPLACE ALL.</li> </ul>
<b>December</b>	<ul style="list-style-type: none"> <li>❖ EOF() function , Programs using DBF.</li> <li>❖ Displaying records.</li> <li>❖ Editing / Replacing</li> </ul>
<b>January</b>	<ul style="list-style-type: none"> <li>❖ LOCATE &amp; CONTINUE Command.</li> <li>❖ Programs using Locate</li> </ul>
<b>February</b>	<ul style="list-style-type: none"> <li>❖ Revision &amp; Practical Exams</li> </ul>
<b>March</b>	<ul style="list-style-type: none"> <li>❖ <b>SA - II</b></li> </ul>

**Standard IX**  
**Visual Basic**

<b>Month/Year</b>	<b>Portion to be covered.</b>
<b>June &amp; July:</b>	<ul style="list-style-type: none"> <li>❖ Definition of VB, Advantages</li> <li>❖ Starting VB</li> <li>❖ IDE Overview along with Diagram (Menu bar, Toolbar, Toolbox, Project Explorer, Properties Window, Form layout window, Form design window) [single line definitions]</li> <li>❖ Creating Project, Adding Forms, Variables (def.), Data types- (integer , single, string), Declaring Variables using dim</li> </ul> <p>Controls - Label, Textbox, Command button, Common Properties: Name, Caption, Font, Forecolor, Backcolor, Visible, enabled.</p>
<b>August</b>	<ul style="list-style-type: none"> <li>❖ MsgBox., Inputbox</li> <li>❖ Check Box, Option Button ( Property – Value)</li> </ul>
<b>September</b>	<ul style="list-style-type: none"> <li>❖ Shape</li> <li>❖ Picture, Image(Picture Property),</li> <li>❖ Timer ( Timer event , Property- interval)</li> </ul>
<b>October</b>	<ul style="list-style-type: none"> <li>❖ <b>SA -I</b></li> <li>❖ Conditional statement -- (Definition ) <ul style="list-style-type: none"> <li>○ If (Def. And syntax)</li> </ul> </li> <li>❖ Programs based on If.</li> </ul>
<b>November</b>	<ul style="list-style-type: none"> <li>• Select case</li> <li>• Programs based on nested if and select case</li> </ul>
<b>December</b>	<ul style="list-style-type: none"> <li>❖ Loop (Definition) For...Next (Def. And syntax)</li> <li>❖ Programs based on for loop.</li> </ul>
<b>January</b>	<ul style="list-style-type: none"> <li>❖ While ----Wend</li> <li>❖ Programs based on while loop.</li> </ul>
<b>February</b>	Revision & Project
<b>March</b>	<ul style="list-style-type: none"> <li>❖ <b>SA - II</b></li> </ul>

**Standard X**  
**Visual Basic with VisData Manager**

<b>Month/Year</b>	<b>Portion to be covered.</b>
<b>June &amp; July:</b>	<ul style="list-style-type: none"> <li>❖ ListBox, Combobox (Difference)               <ul style="list-style-type: none"> <li>○ Adding Items using Property –list</li> <li>○ Methods – AddItem , RemoveItem</li> </ul> </li> </ul>
<b>August</b>	<ul style="list-style-type: none"> <li>❖ Menu Editor               <ul style="list-style-type: none"> <li>○ Creating Menu, Assigning Shortcut and Access key.</li> </ul> </li> <li>❖ Programs based on Menu</li> <li>❖ Tool Bar and Status Bar [ creation using property window]</li> </ul>
<b>September</b>	<ul style="list-style-type: none"> <li>❖ SDI, MDI forms and creating SDI and MDI application</li> <li>❖ <b>SA - I</b></li> </ul>
<b>October</b>	<ul style="list-style-type: none"> <li>❖ Concepts of database, table , record, field</li> </ul>
<b>November</b>	<ul style="list-style-type: none"> <li>❖ VisData Manager [ Creating Database]</li> <li>❖ Steps to create Table, inserting, deleting and modifying records.</li> <li>❖ Connectivity using data control,</li> <li>❖ Creating buttons to Add, modify and delete ,movenext, movefirst, moveprevious, movelast record.</li> </ul>
<b>December</b>	<ul style="list-style-type: none"> <li>❖ Creating simple projects using visdata manager and database connectivity using data control.</li> </ul>
	<ul style="list-style-type: none"> <li>❖ <b>SA - II</b></li> </ul>