**SRI RAMAKRISHNA MISSION VIDYALAYA**

**COLLEGE OF ARTS & SCIENCE- COIMBATORE - 641 020**

For candidates admitted from academic year 2013 – 2014 onwards under New CBCS

**PART III Core Subject 2**

**.NET TECHNOLOGY- I**

**Year : II Semester : III**

**Hours / Week : 4 Subject Code : 3CT06**

 **Credits : 4**

**UNIT I**

**Getting started in Visual Basic .Net**: Starting Visual Basic .Net- Creating a shortcut to start VB.Net- What is IDE- Opening and closing Windows and toolbars- Opening an Existing project- Using the Auto hide facility- Docking and undocking the windows- placing a window at a suitable location- Resizing a Window – Creating a Useful application- Placing the controls on a form- Selecting a form and the controls- Resizing the form and the controls – Relocating the controls – using the properties window- Setting the properties of form and controls – using the solution explorer – Setting the startup object- Writing an Event procedure.

**UNIT II**

**Setting properties using the Properties window**: Classification of properties – Various properties of form- Various properties of Label. Setting Properties Using Event Procedures: Introduction- Setting the text property of label and button- Auto list members and parameters information- Comments – Case sensitivity – Indent sensitivity – Line break for a Line of code- Correcting errors in the code- Setting run time properties: Project event procedure

**UNIT III**

**Visual basic .Net programming Languages**: Variables and data types – Hungarian naming convention for data types – Displaying the output on the screen- Dealing with variables – Building the project: My Variables – Addition of Numbers – Dealing with strings – Arithmetic operators – Using various data types – Hexadecimal, Decimal, Octal, and binary system of numbers – Textbox control – Radio button control – Programming statements: If… Then and If.. Then…End If- Programming Statement: If…. Then…Else…End If- Constants

**Visual basic .Net programming Languages**: Logical operators – Checkbox Control- Iteration Statement – Beware of Infinite Loop – Do while loop Statement- Do loop While Statement- Do until loop statement- Do loop Until statement- For Next Statement- Nesting of the For loops – Arrays.

**UNIT IV**

**Visual basic .Net programming Languages:** Using the import statement – Know the functions – The msgbox functions – Function call and arguments – The project “Message box tour” – The text editor toolbar- The input box function- Comparison Operators- List box Control- Programming Statement: Select Case- Concept of Computer- Control and flow charts – Programming design language.

**Menus and Dialog Boxes**: Basic elements of menu- Generic procedure of creating menus – Creating a simple menu application – Enhancing a simple menu application – Modifying the existing menu – Assigning and Removing shortcut keys – Dynamically growing menus – Pop-up menus – A brief introduction to files – Using dialog-boxes.

**UNIT V**

**Using Built-in Functions**: Build-in functions – Mathematical functions – Strings handling functions – Date and Time handling functions – Data type inspection functions –Data type conversion functions – Function format() – Financial functions – Miscellaneous functions – Option statements – Built-in functions Demonstration Application – Seeking Built-in help.

**Working with Files**: Introduction to Files - Classification of Files – Generic Procedure of processing files – Handling files and folders using functions – Handling files and folders using classes – Directory class – File class – File and Folder manipulation Application – File processing using functions – File processing using streams – Project file processing .

**TEXT BOOK:**

1. Visual Basic.Net, ShirishChavan, Dorling Kindersley (India) Pvt. Ltd, Third Impression, 2009