

KENDRIYA VIDYALAYA SANGATHAN

COMPUTER SYLLABUS OF CLASS III

Quarter – April to June

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
1	<u>COMPUTER BASICS</u>	<ul style="list-style-type: none">• Introduction to Computer• Identify the parts of Computer and their functionality.• Identify the keys of keyboard(alphabet keys, numeric key, caps lock, space bar, backspace/del, enter key, arrow movements)• Identify the buttons of Mouse (Left, Right, Scroll).• Do's and Don'ts of Computer Labs• Strengths and Weakness of Computer	6
2	<u>MS PAINT</u>	<ul style="list-style-type: none">• Home Menu• Select, Free-Form Select• Eraser/Color Eraser• Fill With Color, Pick Color• Magnifier• Pencil• Brush• Airbrush• Text• Line, Curve, Rectangle, Polygon, Ellipse, Rounded Rectangle.	10

Minimum level of learning

Student should be able to identify basic components of computers.
Should know the rules of Computer Laboratory.
Should be able to identify tools of MS Paint.
Should be able to draw basic figures.

Quarter – July to September

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
3	<u>MS PAINT</u>	<ul style="list-style-type: none">• View Menu:• Zoom In.• Zoom out.• Full Screen	2
4	<u>ABOUT DESKTOP AND COMPUTER PERIPHERALS</u>	<ul style="list-style-type: none">• Purpose of Desktop• Identify Icons on Desktop• Start Button and Taskbar• My Computer• Recycle bin• Input and Output Devices<ul style="list-style-type: none">➤ Keyboard, mouse, monitor, printer, speaker• CPU	8
5	<u>MS – WORD</u>	<ul style="list-style-type: none">• Introduction to MS-Word<ul style="list-style-type: none">➤ What is MS Word 2010➤ Features of MS Word 2010➤ Starting MS Word 2010➤ Components of MS Word 2010• Editing the MS-Word 2010<ul style="list-style-type: none">➤ Typing text.➤ Selecting the text➤ Copy, Cut and Paste the text➤ Deleting text• Saving the Document	14

Minimum level of learning

Student should be able to explore the windows.

Should be able recognize and work on basic computer parts

Should be able to open, create and save word file.

Should be able to edit the contents in word file.

Quarter – October to December

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
6	<u>MS – WORD</u>	<ul style="list-style-type: none"> • Formatting Text <ul style="list-style-type: none"> ➤ Font size, style, color, sub/super script. ➤ Bold, Italic, underline, background color. ➤ Numbering and Bullets. ➤ Alignment ➤ Change Case ➤ Inserting the special characters and symbols. • Insert Menu <ul style="list-style-type: none"> ➤ Word Art ➤ Page Break ➤ Images ➤ Clip Art ➤ Shapes ➤ Text Box ➤ Page Number ➤ Date and Time 	12

Minimum level of learning

Student should be able to format the text.

Should be able to insert pictures from clip art and pictures stored in computer.

Should be able format heading using word art.

Should be able to insert page number, date and time.

Should be able to draw shapes.

Quarter – January to March

7	<u>INTERNET</u>	<ul style="list-style-type: none"> • Introduction • Need of Internet • Requirements for an Internet Connection. • Steps to open Web Browser • Search Engines • Finding / Downloading / Saving Images 	12
---	------------------------	--	----

Minimum level of learning

Student should be able to open the Google.

Should be able to search the images and text.

Should be able to download and save image.

KENDRIYA VIDYALAYA SANGATHAN

COMPUTER SYLLABUS OF CLASS IV

Quarter – April to June

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
1	<u>COMPUTER HISTORY</u>	<ul style="list-style-type: none">• Understanding Generations• Classification of Computer	4
2	<u>MS – WORD</u>	<ul style="list-style-type: none">• File Menu<ul style="list-style-type: none">➤ New➤ Open➤ Save➤ Save As➤ Close• View Menu<ul style="list-style-type: none">➤ Print Layout➤ Web Layout➤ Full Screen➤ Zooming➤ Ruler	8
3	<u>EXPLORING WINDOWS</u>	<ul style="list-style-type: none">• Making / Rename / Delete / Move folders• Searching Files• Making shortcuts	4

Minimum level of learning

Student should know the various inventions in computers.

Student should know the difference between Save and Save As option.

Student should be able to open the existing file.

Should be able to work on different views.

Student should be able create/rename/delete/move a folder and making its shortcut on desktop.

Student should be able to search a particular file and folder in computer.

Quarter – July to September

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
4	<u>MS – POWERPOINT</u>	<ul style="list-style-type: none">• Formatting a Presentation<ul style="list-style-type: none">➤ Changing the Font➤ Changing the Font Size, Style, Color,➤ Formatting Paragraphs➤ Changing Text Alignment➤ Modifying Line Spacing➤ Creating Bulleted and Numbered Lists➤ Copying Formatting• Insert Menu / Inserting<ul style="list-style-type: none">➤ Images➤ Table➤ Clip Art➤ Screen Shot➤ Shapes and SmartArt➤ Chart➤ Text Box, WordArt, Date & Time, Slide Number, Symbols,➤ Moving & Resizing an Image• SLIDE SHOW MENU<ul style="list-style-type: none">➤ from Beginning➤ from current slide➤ Custom Slide show➤ Setup slide show	24

Minimum level of learning

Student should be able to format the presentation.

Student should be able to insert various objects in the powerpoint slide.

Student should be able to run the powerpoint slides.

<u>Quarter – October to December</u>			
SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
5	<u>MS – EXCEL</u>	<ul style="list-style-type: none"> • Working in MS-Excel • Definition • Use in life • Steps to start MS Excel • Components of Excel Screen • Various data types • Entering Data in Spreadsheet • About the cell & cell address • Auto Sum • Formatting the Data in the Table 	8
6	<u>WINDOWS ACCESSORIES</u>	<ul style="list-style-type: none"> • Calculator • Onscreen Keyboard • Magnifier • Games • Anti-Virus 	4
Minimum level of learning			
<p>Student should be able to create a file in MS-Excel. Student should be able to identify components of Excel Screen. Student should be able to make a mark sheet in spreadsheet. Student can auto generate the series like Serial no., days, months etc. Student should be able to use calculator, onscreen keyboard, magnifier.</p>			
<u>Quarter – January to March</u>			
7	<u>CONTROL PANEL</u>	<ul style="list-style-type: none"> • Creating User Accounts • Display Properties • Setting of Mouse • Taskbar and Start Menu • Date and Time Settings 	12
Minimum level of learning			
<p>Student should be able to create their accounts in computer. Student should be able to change desktop background, time and date etc. Student should be able to change the view of start menu and customize task bar.</p>			

KENDRIYA VIDYALAYA SANGATHAN

COMPUTER SYLLABUS OF CLASS V

Quarter – April to June

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
1	<u>TABLE CREATION IN WORD</u>	<ul style="list-style-type: none">• Inserting Tables<ul style="list-style-type: none">➤ Selecting no. of rows and Columns➤ Inserting new row and column➤ Merging the cells➤ Filling the color in cells➤ Alignment in the table (vertical and horizontal)➤ Table borders• Draw table	8
2	<u>MORE IN WORD</u>	<ul style="list-style-type: none">• Page Layout Menu<ul style="list-style-type: none">➤ Margins Setting➤ Orientation➤ Paper Size (Legal & A4)➤ Page Borders➤ Indentation➤ Wrap Text➤ Positioning Image	8

Minimum level of learning

Student should be able to create a time table of their class in word.
Student should be able to create a greeting card using page borders and other options.

Quarter – July to September

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
3	<u>MS – EXCEL</u>	<ul style="list-style-type: none"> • Working with Sheets <ul style="list-style-type: none"> ➤ Creating / Deleting Sheets ➤ Renaming Sheets ➤ Copying / Moving Sheets • Inserting New Row and Column • Deleting / Hiding the Rows and Columns • Changing the width and height of the column and row. • Find and Select the data in a given range. • VIEW MENU <ul style="list-style-type: none"> ➤ Gridlines ➤ Freeze Panes ➤ View side by side ➤ Synchronous Scrolling 	16
4	<u>MULTIMEDIA</u>	<p>Media Player: How to open and use.</p> <p>Sound Recorder: How to open and use.</p> <p>Movie Maker:</p> <ul style="list-style-type: none"> ➤ Inserting image ➤ Setting timeline ➤ Publishing movie. 	8

Minimum level of learning

Student should be able to create a sheet with his/her own name.

Student should be able to create an album of CCA activity using movie maker.

Quarter – October to December

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
5	<u>MS – POWERPOINT</u>	<ul style="list-style-type: none">• Design Menu<ul style="list-style-type: none">➤ Slide Designs• Transition Menu<ul style="list-style-type: none">➤ Different Effects on slides• Animation Menu<ul style="list-style-type: none">➤ Different Effects on object• Viewing Presentation in Different Ways<ul style="list-style-type: none">➤ Managing Slides in the Slide Sorter View➤ Running a Presentation in the Slide Show View• Previewing and Printing a Presentation<ul style="list-style-type: none">➤ Selecting Page Setup Options➤ Printing a Presentation	12

Minimum level of learning

Student should be able to select a perfect design for his/her power point file based on project given by different subject teachers.

Student should be able to apply different animation effects on different objects used in slides.

Student should be able to give proper settings for printing the document in page setup.

Quarter – January to March

6	<u>INTERNET</u>	<ul style="list-style-type: none">• Exploring the different websites<ul style="list-style-type: none">➤ KVS website➤ Vidyalaya's Website➤ Wikipedia➤ Edustrokes	12
---	------------------------	--	----

Minimum level of learning

Student should be able to open various educational websites and can copy a paragraph in their PowerPoint presentation.

KENDRIYA VIDYALAYA SANGATHAN

COMPUTER SYLLABUS OF CLASS III

Quarter – April to June

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
1	<u>COMPUTER BASICS</u>	<ul style="list-style-type: none">• Introduction to Computer• Identify the parts of Computer and their functionality.• Identify the keys of keyboard(alphabet keys, numeric key, caps lock, space bar, backspace/del, enter key, arrow movements)• Identify the buttons of Mouse (Left, Right, Scroll).• Do's and Don'ts of Computer Labs• Strengths and Weakness of Computer	6
2	<u>MS PAINT</u>	<ul style="list-style-type: none">• Home Menu• Select, Free-Form Select• Eraser/Color Eraser• Fill With Color, Pick Color• Magnifier• Pencil• Brush• Airbrush• Text• Line, Curve, Rectangle, Polygon, Ellipse, Rounded Rectangle.	10
Minimum level of learning			
<p>Student should be able to identify basic components of computers. Should know the rules of Computer Laboratory. Should be able to identify tools of MS Paint. Should be able to draw basic figures.</p>			

Quarter – July to September

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
3	<u>MS PAINT</u>	<ul style="list-style-type: none">• View Menu:• Zoom In.• Zoom out.• Full Screen	2
4	<u>ABOUT DESKTOP AND COMPUTER PERIPHERALS</u>	<ul style="list-style-type: none">• Purpose of Desktop• Identify Icons on Desktop• Start Button and Taskbar• My Computer• Recycle bin• Input and Output Devices<ul style="list-style-type: none">➤ Keyboard, mouse, monitor, printer, speaker• CPU	8
5	<u>MS – WORD</u>	<ul style="list-style-type: none">• Introduction to MS-Word<ul style="list-style-type: none">➤ What is MS Word 2010➤ Features of MS Word 2010➤ Starting MS Word 2010➤ Components of MS Word 2010• Editing the MS-Word 2010<ul style="list-style-type: none">➤ Typing text.➤ Selecting the text➤ Copy, Cut and Paste the text➤ Deleting text• Saving the Document	14

Minimum level of learning

Student should be able to explore the windows.

Should be able recognize and work on basic computer parts

Should be able to open, create and save word file.

Should be able to edit the contents in word file.

Quarter – October to December

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
6	<u>MS – WORD</u>	<ul style="list-style-type: none"> • Formatting Text <ul style="list-style-type: none"> ➤ Font size, style, color, sub/super script. ➤ Bold, Italic, underline, background color. ➤ Numbering and Bullets. ➤ Alignment ➤ Change Case ➤ Inserting the special characters and symbols. • Insert Menu <ul style="list-style-type: none"> ➤ Word Art ➤ Page Break ➤ Images ➤ Clip Art ➤ Shapes ➤ Text Box ➤ Page Number ➤ Date and Time 	12

Minimum level of learning

Student should be able to format the text.

Should be able to insert pictures from clip art and pictures stored in computer.

Should be able format heading using word art.

Should be able to insert page number, date and time.

Should be able to draw shapes.

Quarter – January to March

7	<u>INTERNET</u>	<ul style="list-style-type: none"> • Introduction • Need of Internet • Requirements for an Internet Connection. • Steps to open Web Browser • Search Engines • Finding / Downloading / Saving Images 	12
---	------------------------	--	----

Minimum level of learning

Student should be able to open the Google.

Should be able to search the images and text.

Should be able to download and save image.

KENDRIYA VIDYALAYA SANGATHAN

COMPUTER SYLLABUS OF CLASS IV

Quarter – April to June

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
1	<u>COMPUTER HISTORY</u>	<ul style="list-style-type: none">• Understanding Generations• Classification of Computer	4
2	<u>MS – WORD</u>	<ul style="list-style-type: none">• File Menu<ul style="list-style-type: none">➤ New➤ Open➤ Save➤ Save As➤ Close• View Menu<ul style="list-style-type: none">➤ Print Layout➤ Web Layout➤ Full Screen➤ Zooming➤ Ruler	8
3	<u>EXPLORING WINDOWS</u>	<ul style="list-style-type: none">• Making / Rename / Delete / Move folders• Searching Files• Making shortcuts	4

Minimum level of learning

Student should know the various inventions in computers.

Student should know the difference between Save and Save As option.

Student should be able to open the existing file.

Should be able to work on different views.

Student should be able create/rename/delete/move a folder and making its shortcut on desktop.

Student should be able to search a particular file and folder in computer.

Quarter – July to September

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
4	<u>MS – POWERPOINT</u>	<ul style="list-style-type: none">• Formatting a Presentation<ul style="list-style-type: none">➤ Changing the Font➤ Changing the Font Size, Style, Color,➤ Formatting Paragraphs➤ Changing Text Alignment➤ Modifying Line Spacing➤ Creating Bulleted and Numbered Lists➤ Copying Formatting• Insert Menu / Inserting<ul style="list-style-type: none">➤ Images➤ Table➤ Clip Art➤ Screen Shot➤ Shapes and SmartArt➤ Chart➤ Text Box, WordArt, Date & Time, Slide Number, Symbols,➤ Moving & Resizing an Image• SLIDE SHOW MENU<ul style="list-style-type: none">➤ from Beginning➤ from current slide➤ Custom Slide show➤ Setup slide show	24

Minimum level of learning

Student should be able to format the presentation.

Student should be able to insert various objects in the powerpoint slide.

Student should be able to run the powerpoint slides.

<u>Quarter – October to December</u>			
SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
5	<u>MS – EXCEL</u>	<ul style="list-style-type: none"> • Working in MS-Excel • Definition • Use in life • Steps to start MS Excel • Components of Excel Screen • Various data types • Entering Data in Spreadsheet • About the cell & cell address • Auto Sum • Formatting the Data in the Table 	8
6	<u>WINDOWS ACCESSORIES</u>	<ul style="list-style-type: none"> • Calculator • Onscreen Keyboard • Magnifier • Games • Anti-Virus 	4
Minimum level of learning			
<p>Student should be able to create a file in MS-Excel. Student should be able to identify components of Excel Screen. Student should be able to make a mark sheet in spreadsheet. Student can auto generate the series like Serial no., days, months etc. Student should be able to use calculator, onscreen keyboard, magnifier.</p>			
<u>Quarter – January to March</u>			
7	<u>CONTROL PANEL</u>	<ul style="list-style-type: none"> • Creating User Accounts • Display Properties • Setting of Mouse • Taskbar and Start Menu • Date and Time Settings 	12
Minimum level of learning			
<p>Student should be able to create their accounts in computer. Student should be able to change desktop background, time and date etc. Student should be able to change the view of start menu and customize task bar.</p>			

KENDRIYA VIDYALAYA SANGATHAN

COMPUTER SYLLABUS OF CLASS V

Quarter – April to June

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
1	<u>TABLE CREATION IN WORD</u>	<ul style="list-style-type: none">• Inserting Tables<ul style="list-style-type: none">➤ Selecting no. of rows and Columns➤ Inserting new row and column➤ Merging the cells➤ Filling the color in cells➤ Alignment in the table (vertical and horizontal)➤ Table borders• Draw table	8
2	<u>MORE IN WORD</u>	<ul style="list-style-type: none">• Page Layout Menu<ul style="list-style-type: none">➤ Margins Setting➤ Orientation➤ Paper Size (Legal & A4)➤ Page Borders➤ Indentation➤ Wrap Text➤ Positioning Image	8
<p>Minimum level of learning</p> <p>Student should be able to create a time table of their class in word. Student should be able to create a greeting card using page borders and other options.</p>			

Quarter – July to September

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
3	<u>MS – EXCEL</u>	<ul style="list-style-type: none">• Working with Sheets<ul style="list-style-type: none">➤ Creating / Deleting Sheets➤ Renaming Sheets➤ Copying / Moving Sheets• Inserting New Row and Column• Deleting / Hiding the Rows and Columns• Changing the width and height of the column and row.• Find and Select the data in a given range.• VIEW MENU<ul style="list-style-type: none">➤ Gridlines➤ Freeze Panes➤ View side by side➤ Synchronous Scrolling	16
4	<u>MULTIMEDIA</u>	<p>Media Player: How to open and use.</p> <p>Sound Recorder: How to open and use.</p> <p>Movie Maker:</p> <ul style="list-style-type: none">➤ Inserting image➤ Setting timeline➤ Publishing movie.	8

Minimum level of learning

Student should be able to create a sheet with his/her own name.

Student should be able to create an album of CCA activity using movie maker.

Quarter – October to December

SL. NO.	UNITS	CONTENTS	NO. OF PERIODS
5	<u>MS – POWERPOINT</u>	<ul style="list-style-type: none">• Design Menu<ul style="list-style-type: none">➤ Slide Designs• Transition Menu<ul style="list-style-type: none">➤ Different Effects on slides• Animation Menu<ul style="list-style-type: none">➤ Different Effects on object• Viewing Presentation in Different Ways<ul style="list-style-type: none">➤ Managing Slides in the Slide Sorter View➤ Running a Presentation in the Slide Show View• Previewing and Printing a Presentation<ul style="list-style-type: none">➤ Selecting Page Setup Options➤ Printing a Presentation	12

Minimum level of learning

Student should be able to select a perfect design for his/her power point file based on project given by different subject teachers.

Student should be able to apply different animation effects on different objects used in slides.

Student should be able to give proper settings for printing the document in page setup.

Quarter – January to March

6	<u>INTERNET</u>	<ul style="list-style-type: none">• Exploring the different websites<ul style="list-style-type: none">➤ KVS website➤ Vidyalaya's Website➤ Wikipedia➤ Edustrokes	12
---	------------------------	--	----

Minimum level of learning

Student should be able to open various educational websites and can copy a paragraph in their PowerPoint presentation.

SYLLABUS OF VI

Quarter – April to June

Sl. No.	Units	Contents	No. of Periods
1	1. Fundamental of Computer	1.1 Review Brief history of computer 1.2 Basic components of computer (Block diagram & its working) 1.3 Different Devices (OCR,Scanner, Mp3 player, bar code reader, MICR etc.) 1.4 Software definition and Types 1.5 Computer Memory (Measurement units and types) 1.6 Printers and types	5
2	2. Word Processing (MS Word)	2.1 Header and footer 2.2 Formatting of Paragraph 2.3 Mail Merge 2.4 Envelope and labels 2.5 Creation of column 2.6 Hyperlink 2.7 Drop cap	9
<p style="text-align: center;">Minimum level of learning Child should be able to identify basic components of computers and Input/Output devices Should be able to turn on and off the computer Should be able to open , create and format a word file Should be able to understand the concept of mail merge</p>			

Formative Assessment – 1
Quarter – July to September

3	3. Spread Sheet (MS Excel)	132131321	24
		<p>3.1 Table creating in MS Excel and implementing Various Charts(pie, bar , column, area, scatter etc.)</p> <p>3.2 Cell reference in MS Excel(within same sheet and different sheet)</p> <p>3.3 Functions in MS Excel (Mathematical and Conditional) (list of formula...)</p> <p>3.4 Sorting of data in MS Excel</p> <p>3.5 Filtering data in MS Excel</p> <p>3.6 Conditional Formatting</p> <p>3.7 Protection of Work book and Worksheet</p> <p>(1. A assignment can be assigned to students to develop a marks sheet using cell referencing , borders, various formatting etc.</p> <p>(2. Development of Chart using a table i.e. result analysis, subject vise comparison of marks etc can be assigned)</p>	

Minimum level of learning
Child should be able to understand the use of excel
Should be able to open , create an excel file and can do calculation using formulas
Should be able to understand the concept of sorting, filtering ,password

Formative Assessment – 2
Summative Assessment – 1

Quarter – October to December

4	4. Advance feature of MS Power Point	4.1 Insert different objects(i.e. images, Word arts , audio & Video etc.) 4.2 Transitions in slide 4.3 Custom Animation with text 4.4 Power point Presenter (1. A demonstration of a effective power point presentation should be given and then various exercises can be assigned) (2. Presentation related to other subjects also can be assigned)	12
5	5. HTML	5.1 Introduction to HTML 5.2 HTML Tags 5.3 HEAD ,TITLE, BODY ,Empty and Container Tags	6

Minimum level of learning
 Child should be able to start power point presentation
 Should be able to create an effective presentation
 (effective means using templates, transition, animation etc.)
 *)

Child should be able be create simple web page
Formative Assessment – 3

Quarter – January to March

6	6. Use of internet	6.1 Overview of internet 6.2 Different types of web sites 6.3 Web browsers 6.4 Opening of Web pages and Web Sites 6.5 Use of search engine 6.6 Creation of an E-mail and using it 6.7 Advantage and Disadvantage of Social Media/sites 6.8 Networking and Networks	12
---	--------------------	---	----

Minimum level of learning
 Child should be able to access the web page ,can identify various browsers
 can effectively search a topic on the internet
 can ensure his/her security over the net
 can open an email account and operate it.

Formative Assessment – 4
Summative Assessment – 2

SYLLABUS OF VII

Quarter – April to June

Sl. No.	Units	Contents	No. of Periods
1	1. Computer Security	1.1 Threats to computer 1.2 Virus and its types 1.3 Anti Virus software and examples 1.4 Firewall and its use 1.5 Cyber Crime and Computer Ethics 1.6 Hackers and crackers 1.7 Cyber law and importance	5
2	2. HTML	2.1 Heading (H1 to H6) 2.2 , <hr>, <comment> 2.3 Background Color ,font tag(size, face, color) 2.4 Text alignment (center, left , right)	9
Minimum level of learning Child should be able to secure his/her computer from various threats Can tell what is cyber crime and understand the importance of cyber law			

Quarter – October to December

5	Photoshop (continued)		18
	5.1 Rectangular Marquee	Rectangular Marquee 5.1.1. Elliptical Marquee 5.2.1. Single column Marquee 5.3.1. Single Row Marquee	
	5.2 Lasso	Lasso 5.1.2. Polygonal Lasso 5.2.2. Magnetic Lasso 5.3.2. Quick Selection 5.4.2. Magic Wand	
	5.3 Crop and Slice tools	Crop and Slice tools 5.3.1 Crop 5.3.2 slice 5.3.3 Slice Select	
	5.4 Measuring tools	Measuring tools 5.4.1 Eyedropper 5.4.2 color Sampler 5.4.3 Ruler 5.4.4 Note 5.4.5 Count	
	5.5 Retouching tools	Retouching tools 5.5.1 Spot Healing Brush 5.5.2 Healing Brush 5.5.3 Patch 5.5.4 Red Eye 5.5.5 Magic Eraser 5.5.6 Blur 5.5.7 Sharpen 5.5.8 Smudge 5.5.9 Dodge 5.5.10 Burn 5.5.11 Sponge	

Minimum level of learning

Introduction of tool with its use to be demonstrated to students
 Practical exercise to be given to students so that they can learn the specified tool

Child should be able to understand the use of Photoshop
 Should be able to identify various tools and where to use the tool
 Should be able to make changes in the picture using tools taught in the class

Formative Assessment – 3

Quarter – January to March

6	Painting Tools in Photoshop	6.1 Brush 6.2 Pencil 6.3 Color Replacement 6.4 Mixer Brush 6.5 History Brush 6.6 Art History Brush 6.7 Gradient 6.8 Paint Bucket	12
---	-----------------------------	---	----

Minimum level of learning

Should be able to identify various tools and where to use the tool
Should be able to make changes in the picture using tools taught in the class
Introduction of tool with its use to be demonstrated to students
Practical exercise to be given to students so that they can learn the specified tool

Formative Assessment – 4
Summative Assessment – 2

SYLLABUS OF VIII

Quarter – April to June

Sl. No.	Units	Contents	No. of Periods
1	1. Algorithm	1.1 Use of algorithm in programming Developing algorithm to solve a particular problem	6
2	2. Flow chart	2.1 About flow chart 2.2 Various types of box used in flow chart and their use (terminal box, input/output box, processing box, decision box) 2.3 Question based on sequence, selection and iteration	8
Minimum level of learning Child should be able to develop a solution of a problem and can create its algorithm and flow chart			

Quarter – October to December

5	<p>5. Photoshop (Continue...)</p> <p>5.1 Photoshop Vector tools</p> <p>5.2 Type in Photoshop</p> <p>5.3 Output from Photoshop</p>	<p>6.2 Photoshop Vector tools</p> <p>5.1.1 Basic Vector paths</p> <p>5.1.2 Drawing shapes</p> <p>5.1.3 Combining vector paths</p> <p>5.1.4 Converting shapes to selections</p> <p>5.1.5 Manipulating vector paths</p> <p>6.3 Type in Photoshop</p> <p>5.2.1 Typographic design</p> <p>5.2.2 Creating a clipping mask from type</p> <p>5.2.3 Creating a design element from type</p> <p>5.2.4 Using interactive formatting controls</p> <p>5.2.5 Wrapping font type</p> <p>5.2.6 Designing a paragraph of type</p> <p>6.4 Preparing file for print</p> <p>5.3.1 Preparing file for web output</p> <p>File compression</p>	10
6	<p>6. Flash</p>	<p>6.5 What is flash and its uses</p> <p>6.6 Creating animation</p> <p>6.7 About symbols and instances</p> <p>6.8 Types of symbols(graphic, button,movie clip etc.)</p> <p>6.9 Converting an object to a symbol</p> <p>6.10 Introducing time line and its use in animation</p> <p>6.11 Frames and key frame</p> <p>6.12 About layers (inserting a new layer, renaming & deleting layer)</p> <p>6.13 Types of animation (frame and tweened)</p>	8

Minimum level of learning

- Should be able to identify various tools and where to use the tool
- Should be able to make changes in the picture using tools taught in the class
- Should be able to create a simple flash file using his/her own creativity

Formative Assessment – 3

<u>Quarter – January to March</u>			
7	7. Flash continued...	7.1 Motion tweening (using and without using motion guide) 7.2 Shape tweening (simple shape and using text strings)	4
8	8. E-Commerce E-Greeting	8.1 What is it ? 8.2 Influence on user 8.3 What factor one should keep in mind while doing e-commerce, Websites Example	2
9	9. Chatting	9.1 Definition 9.2 Example	2
10	10. Downloading/Uploading	10.1 Downloading/Uploading Speed 10.2 Difference 10.3 Example 10.4 Concept of Bandwidth and protocol	2
11	11. Video Conferencing	11.1 What is it 11.2 Use of It 11.3 Factors affecting Video Quality 11.4 Usefulness of Video Conferencing	2
Minimum level of learning Child should be able to create simple flash file having different types of motion Child should be able to understand the e-commerce and its various websites and what to keep in mind while doing online purchasing chatting, downloading and uploading Use of video conferring and its advantage			
Formative Assessment – 4 Summative Assessment – 2			

Syllabus of Computer Fundamentals

Class IX

Quarter 1- April to June

S.no.	Units	Contents	No. of Periods
1.	Revision of Fundamental Concepts	1.1 REVIEW OF PHOTOSHOP 1.1.1 Opening & Saving 1.1.2 Scanning a Photograph 1.1.3 Adjusting Image Size 1.1.4 Selection Tools	6
2.	Multimedia Authoring & Animation (Review of Flash & Introduction to Autodesk 3DMax)	2.1 REVIEW OF FLASH 2.1.1 Using the Toolbar 2.1.2 ANIMATION CONCEPTS 2.1.3 FRAMES & LAYERS 2.1.4 About Layers 2.1.5 Types of Animation 2.1.6 Publishing the Movie 2.2 Introduction to Autodesk 3DMax 2.2.1 What is 3D? 2.2.1.1 3D Basics: 2.2.1.2 Modeling 2.2.1.3 Animation 2.2.1.4 Rendering 2.2.1.5 Object-orientation 2.2.2 Navigation and Display 2.2.2.1 Coordinate Systems & The Home Grid 2.2.2.2 Orthogonal vs. Perspective Views 2.2.2.3 Changing Views and Viewport Layout 2.2.2.4 Display Modes & Viewport Window Controls 2.2.2.5 Custom Grids and Snaps 2.2.3 Creating Objects & Selecting Objects. 2.2.4 Parenting & Grouping objects. 2.2.5 Transforming Objects.	10

Minimum Level of learning

Student should be able to do animation in Flash & know basics of Autodesk 3D Max

Quarter 2- July to Sept

3.	Adding styles to Webpages using CSS	3.1 Review of HTML 3.1.1 World Wide Web(WWW) 3.1.2 Headers 3.1.3 Body and Titles 3.1.4 Headings 3.1.5 Paragraphs 3.1.6 Tables 3.1.7 Lists 3.2 Adding Style Sheets	16
----	-------------------------------------	---	----

		3.2.1 Setting the default style sheet language 3.2.2 Inline style information 3.2.3 Header style information: the “STYLE” element. 3.2.4 Media types 3.3 External Style Sheets 3.3.1. Preferred and alternate style sheets 3.3.2. Specifying external style sheets 3.4 CSS Properties-Border, box, font, margin 3.5 CSS Classes 3.5.1. ID 3.5.2. Class Selectors	
Minimum Level of learning Student should be able to do coding of CSS at basic level.			

Quarter 3- Oct to Dec

4.	Web scripting JavaScript	4.1 CREATING INTERACTIVE WEBPAGES USING JAVASCRIPT 4.1.1 Introduction and History of Java Script 4.1.2 Objectives and Properties 4.1.3 Variables & Operators 4.3.3.1 Variable constraints, 4.3.3.2. Types of Operators: logical, arithmetic, relational 4.3.3.3 Decision Making using if & Switch 4.3.3.4 Iteration – Loops 4.3.3.5 Window Object 4.3.3.6. Popup Boxes – alert, confirm etc.	20
Minimum Level of learning Student should be able to do JavaScript programming to design HTML pages.			

Quarter 4- Jan to Mar

5.	Database concepts- RDBMS	5.1 Basics of RDBMS 5.1.1 Purpose 5.1.2 Data Models 5.1.3 Relational Model 5.2 Data Definition Language 5.2.1 Creating Database and Tables 5.2.2 Creating Views 5.3 Data Manipulation Language 5.3.1 Data input, modify, display & deleting in tables 5.3.2 Ordering & grouping 5.4 Operating with multiple tables. 5.4.1 Union 5.4.2 Join	10
6.	Network Safety & Security	6.1 Network Safety 6.1.1. Social Networking Ethics 6.2 Network Security Tools And Services	4

- | | | | |
|--|--|---|--|
| | | 6.2.1. Tools
6.2.2. LAN Management
6.2.3. WAN Management
6.2.4. VOIP | |
|--|--|---|--|

6.3 Cyber Security

- 6.3.1. Reasons for Cyber
- 6.3.2. Security Objectives of Cyber Security

6.4 Safe Practices On Social Networking

Minimum Level of learning

Student should be able to know the concept of RDBMS & Network & Cyber Safety measures.

Syllabus of Computer Fundamentals

Class X

Quarter 1- April to June

S.no.	Units	Contents	No. of Periods
1.	Review of Autodesk 3D Max	1.1 What is 3D? 1.2 Navigation and Display 1.3 Creating Objects & Selecting Objects. 1.4 Parenting & Grouping objects. 1.5 Transforming Objects.	4
2.	Animation in 3D Max	2.1. Animation 2.1.1 Keys and Key framing. 2.1.2 Animation Controllers 2.1.3 Parametric vs. Transform Animation 2.1.4 Animation Playback 2.1.5 Acceleration 2.1.6 Time Configuration 2.1.7 Cycling & Linking 2.2 Editing tools: 2.2.1 Select Modifiers 2.2.2 Edit Modifiers 2.2.3 Editable Object Commands 2.2.4 Sub-Object Selection 2.2.5 Modifying & Transforming Sub-Objects 2.2.6 Mesh Editing Levels 2.2.7 Spline Editing Levels	12
Minimum Level of learning Student should be able to open & do small animation in Autodesk 3D Max			

Quarter 2- July to Sept

3.	Customizing & Embedding Multimedia components in Webpages	3.1 Inserting Multimedia files in Webpages 3.1.1 Compatible Multimedia Files formats for Webpages. 3.1.2 Embedding Audio File. 3.1.3 Embedding Video File. 3.1.4 Embedding Flash File.	16
Minimum Level of learning Student should be able to insert Multimedia files in the webpage.			

Quarter 3- Oct to Dec

4.	Web Scripting Using Java Script	2.1 REVIEW OF JAVA SCRIPT OF CLASS IX 2.1.1 Variables & Operators 2.1.2. If & Switch 2.1.3 Iteration (Loops) 2.1.4 Window Object 2.1.5 Pop – Up Boxes –Alert, Confirm Etc. 2.2 FUNCTIONS –USER DEFINED	20
----	--	--	----

		2.2.1 Function Definition 2.2.2 Calling a Function 2.2.3 Function Parameters 2.2.4 Return Statement 2.3 String Object 2.3.1 Syntax 2.3.2 String Properties 2.3.3 String Methods 2.3.4 String HTML Wrappers 2.4 Math Object 2.4.1 Syntax 2.4.2 Array Properties 2.4.3 Array Methods 2.5 Event 2.5.1 What is an Event? 2.5.2 An click Event Type 2.5.3 On Submit Event Type 2.5.4 On Mouseover & On Mouseout 2.5.5 HTML 4 Standard Events	
--	--	--	--

Minimum Level of learning

Student should be able to deal with programming concept in JavaScript to design Interactive webpages.

Quarter 4- Jan to Mar

5.	Operating Web Based Application	4.1 E-GOVERNANCE 4.1.1 What is E-Governance 4.1.2 Major E- Governance Projects in India 4.1.3 Societal Imports of E- Governance 4.2. E-BUSSINESS 4.2.1 What is E- Business 4.2.2 Major E- Business Portals 4.2.3 Societal Impacts of E- Business 4.3 E- LEARNING 4.3.1 What is E- Learning? 4.3.2 Major E- Learning Sites 4.3.3 Societal Impacts of E- Learning.	6
6.	Project	Developing a Project on coding a website using HTML, JavaScript & CSS.	8

Minimum Level of learning

Student should be able to know the importance of E-Governance & should able to design a webpage using Html & JavaScript
