# **Galaxy Public School**

## **Syllabus**

### **Information Technology**

### (SUBJECT CODE - 402)

Class -9<sup>th</sup>

### DETAILED CURRICULUM/TOPICS:

#### Part-A: EMPLOYABILITY SKILLS

S. No.	Units	Duration in Hours
1.	Unit 1: Communication Skills-I	10
2.	Unit 2: Self-Management Skills-I	10
3.	Unit 3: Basic Information and Communication Technology Skills-I	10
4.	Unit 4: Entrepreneurial Skills-I	15
5.	Unit 5: Green Skills-I	05
	TOTAL	50
NOTE:	Detailed Curriculum/ Topics to be covered under Part A: E	Employability Skills c

be downloaded from CBSE website.

#### Part-B – SUBJECT SPECIFIC SKILLS

	UNIT 1: INTRODUCTION TO IT-ITeS INDUSTRY				
S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL		
1	Appreciate the applications of IT	<ul> <li>Introduction to IT and ITeS, BPO services,</li> <li>BPM industry in India,</li> <li>Structure of the IT-BPM industry,</li> <li>Applications of IT in home computing, everyday life, library, workplace, education, entertainment, communication, business, science and engineering, banking, insurance, marketing, health care, IT in the government and public service,</li> </ul>	<ul> <li>Identify and list the various IT enabled services, Observe the application of IT in various areas.</li> </ul>		

	UNIT 2: DATA ENTRY AND KEYBOARDING SKILLS				
S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL		
1.	Use keyboard and mouse for data entry	<ul> <li>Keyboarding Skills,</li> <li>Types of keys on keyboard, Numeric keypad,</li> <li>Home keys, Guide keys,</li> <li>Typing and deleting text,</li> <li>Typing ergonomics,</li> <li>Positioning of fingers on the keyboard, Allocation of keys to fingers on four different rows,</li> <li>Pointing device – Mouse, Mouse operations.</li> </ul>	<ul> <li>Identify the keys and its use on the keyboard,</li> <li>Demonstrate to use various keys on the keyboard,</li> <li>Demonstrate to type the text, numbers, special character using appropriate keys on the keyboard,</li> <li>Practice the correct typing ergonomics,</li> <li>Practice to place fingers on correct key in four different row of keyboard,</li> <li>Practice various mouse operations.</li> </ul>		
2.	Use typing software	<ul> <li>Introduction to Rapid Typing Tutor,</li> <li>Touch typing technique,</li> <li>User interface of Typing Tutor,</li> <li>Typing text and interpret results,</li> <li>Working with lesson editor,</li> <li>Calculating typing speed,</li> <li>Typing rhythm.</li> </ul>	<ul> <li>Identify the user interface of</li> <li>typing tutor,</li> <li>Practice to type text in typing tutor software and interpret the results,</li> <li>Practice to work in lesson editor,</li> <li>Calculate the typing speed</li> <li>Practice to improve typing</li> <li>Using typing tutor software.</li> </ul>		

	UNIT 3: DIGITAL DOCUMENTATION				
S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL		
1.	Create a document using a word processor	<ul> <li>Introduction to word processing,</li> <li>Word processing applications,</li> <li>Introduction to Word Processing tool</li> <li>Creating a document, Parts of a Word Processor Window,</li> </ul>	<ul> <li>List the available word processing applications.</li> <li>Introduce with the parts of the main window.</li> <li>Change document views.</li> <li>Start a new document.</li> <li>Open an existing document.</li> <li>Save a document.</li> <li>Close a document.</li> </ul>		
2.	Apply Editing features	<ul> <li>Text editing – Undo and Redo,</li> <li>Moving and copying text,</li> <li>Copy and Paste,</li> <li>Selecting text,</li> <li>Selection criteria,</li> <li>Selecting non-consecutive text items,</li> <li>Selecting a vertical block of</li> <li>text,</li> <li>Find and replace option,</li> <li>Jumping to the page number,</li> <li>Non-printing characters,</li> <li>Checking spelling and grammar,</li> <li>Using Synonyms and Thesaurus.</li> </ul>	<ul> <li>Editing of text in a document</li> <li>Demonstrate to use undo and redo option,</li> <li>Use the keyboard and mouse options to select, cut, copy, paste, and move text.</li> <li>Demonstrate to select nonconsecutive text items, vertical block of text,</li> <li>Search and replace text in a document.</li> <li>Jump to the given page number in a document,</li> <li>Insert non-printing characters in a document,</li> <li>Apply Spelling and grammar option of document.</li> <li>Demonstrate to use Synonyms and Thesaurus.</li> </ul>		

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
		Page style dialog	Apply various text formatting
3.	Apply formatting features	<ul> <li>Page style dialog</li> <li>Formatting text – Removing manual formatting, Common text formatting, Changing text case, Superscript and Subscript</li> <li>Formatting paragraph – Indenting paragraphs, Aligning paragraphs, Font colour, highlighting, and background colour, Using bullets and numbering, Assigning colour, border and background to paragraph.</li> <li>Page formatting – setting up basic page layout using styles, Inserting page break, Creating header/footer and page numbers,</li> <li>Defining borders and backgrounds, Inserting images shapes, special characters in a document, Dividing page into columns, Formatting the shape or image.</li> </ul>	<ul> <li>Apply various text formatting options for the text,</li> <li>Demonstrate to format paragraphs – indent/align paragraphs, assign font colour, highlighting, and background colour,</li> <li>Assign number or bullets to the lists items</li> <li>Demonstrate to assign colour, border and background to paragraph</li> <li>Demonstrate the page formatting – set up basic page layout using styles,</li> <li>Insert page break, Create header/footer and page numbers</li> <li>Define borders and backgrounds</li> <li>Insert images, shapes, special characters in a document</li> <li>Divide page into columns,</li> <li>Format the shape or image.</li> </ul>
4.	Create and work with tables Use Print	<ul> <li>Creating table in Word Processor</li> <li>Inserting row and column in a table</li> <li>Deleting rows and columns</li> <li>Splitting and merging tables</li> <li>Deleting a table</li> <li>Copying a table</li> <li>Moving a table.</li> <li>Printing options in Word Processor.</li> </ul>	<ul> <li>Demonstrate and do the following in Word Processor:</li> <li>Create table,</li> <li>Insert and delete rows and column in a table,</li> <li>Split and merge tables,</li> <li>Delete a table,</li> <li>Copy or move from one location to another location of document.</li> <li>Demonstrate to print the document,</li> </ul>
	Options	<ul> <li>Print preview,</li> <li>Controlling printing,</li> <li>Printing all pages, single and multiple pages.</li> </ul>	<ul><li>selected pages in the document</li><li>Print the document with various options,</li><li>Preview pages before printing.</li></ul>

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
6.	Understand and apply mail merge	<ul> <li>Introduction to mail merge</li> <li>Concept of data source for mail merge.</li> </ul>	<ul> <li>Demonstrate to print the letters using mail merge,</li> <li>Do the following to achieve</li> <li>Create a main document,</li> <li>Create the data source,</li> <li>Enter data in the fields,</li> <li>Merge the data source with main document,</li> <li>Edit individual document,</li> <li>Print the merged letter,</li> <li>Save the merged letter.</li> </ul>

	UNIT 4: ELECTRONIC SPREADSHEET				
S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL		
1.	Create a Spreadsheet	<ul> <li>Introduction to spreadsheet application</li> <li>Starting a spreadsheet</li> <li>Parts of a spreadsheet</li> <li>Worksheet – Rows and Columns, Cell and Cell Address,</li> <li>Range of cells – column range, row range, row and column range.</li> </ul>	<ul> <li>Start the spreadsheet,</li> <li>Identify the parts of Calc,</li> <li>Identify the rows number, column number, cell address,</li> <li>Define the range of cell,</li> <li>Identify row range, column range, row &amp; column range</li> </ul>		
2.	Apply formula and functions in spreadsheet	<ul> <li>Different types of data,</li> <li>Entering data – Label, Values, Formula</li> <li>Formula, how to enter formula,</li> <li>Mathematical operators used in formulae,</li> <li>Simple calculations using values and operators,</li> <li>Formulae with cell addresses and operators,</li> <li>Commonly used basic functions in a spreadsheet – SUM, AVERAGE, MAX, MIN, Count</li> <li>Use of functions to do calculations.</li> </ul>	<ul> <li>Demonstrate to enter the text, numeric data in a cell,</li> <li>Identify the label, values and formula in the cell,</li> <li>Demonstrate to enter formula in a cell,</li> <li>Construct the formula using mathematical operators,</li> <li>Identify formulae with cell addresses and operators,</li> <li>Identify the correct syntax of formula,</li> <li>Use the basic functions to perform calculations on data.</li> </ul>		

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
3.	Format data in the spreadsheet	<ul> <li>Formatting tool,</li> <li>Use of dialog boxes to format values,</li> <li>Formatting a range of cells with decimal places,</li> <li>Formatting a range of cells to be seen as labels,</li> <li>Formatting of a cell range as scientific,</li> <li>Formatting a range of cells to display times,</li> <li>Formatting alignment of a cell range,</li> <li>Speeding up data entry using the fill handle,</li> <li>Uses of fill handle to copy formulae.</li> </ul>	<ul> <li>Identify the formatting tool,</li> <li>Demonstrate to use of dialog boxes to format values,</li> <li>Demonstrate to format range of cells with decimal places,</li> <li>Demonstrate to format a range of cells to labels,</li> <li>Demonstrate to format of a cell range as scientific,</li> <li>Demonstrate to format a range of cells to display time,</li> <li>Demonstrate to align cell data range,</li> <li>Demonstrate to create</li> <li>number series using fill handle,</li> <li>Copy formula by dragging the formula using fill handle.</li> </ul>
4.	Understand and apply Referencing	<ul> <li>Concept of referencing,</li> <li>Relative referencing,</li> <li>Mixed referencing,</li> <li>Absolute referencing.</li> </ul>	<ul> <li>Demonstrate to use Relative referencing in spreadsheet,</li> <li>Demonstrate to use Mixed referencing in spreadsheet,</li> <li>Demonstrate to use Absolute referencing in spreadsheet.</li> </ul>
5.	Create and insert different types of charts in a spreadsheet	<ul> <li>Importance of chart in spreadsheet</li> <li>Types of chart</li> </ul>	<ul> <li>Create different types of charts supported by a spreadsheet,</li> <li>Illustrate the example of chart in a spreadsheet.</li> </ul>

UNIT 5: DIGITAL PRESENTATION			
S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Understand features of an effective presentation	<ul> <li>Concept of presentation,</li> <li>Elements of presentation,</li> <li>Characteristics of an effective presentation</li> </ul>	<ul> <li>Identify and list the elements of presentation,</li> <li>List the characteristics of an effective presentation.</li> </ul>
2.	Create a presentation	<ul> <li>Introduction to presentation software,</li> <li>Opening a presentation software</li> <li>Parts of presentation window,</li> <li>Closing a presentation</li> <li>Creating a presentation using template,</li> <li>Selecting slide layout,</li> <li>Saving a presentation,</li> <li>Running a slide show,</li> <li>Save a presentation in PDF,</li> <li>Closing a presentation,</li> <li>Using Help.</li> </ul>	<ul> <li>Start the presentation application</li> <li>various components of main Impress window</li> <li>Observe the different workspace views.</li> <li>Create a new presentation using wizard.</li> <li>Run the presentation,</li> <li>Save the presentation,</li> <li>Close the presentation,</li> <li>Demonstrate to use Help in presentation.</li> </ul>
3.	Work with slides	<ul> <li>Inserting a duplicate slide,</li> <li>Inserting new slides,</li> <li>Slide layout,</li> <li>Copying and moving slides,</li> <li>Deleting and renaming slides</li> <li>Copying, moving and deleting contents of slide,</li> <li>View a presentation,</li> <li>Controlling the size of the view,</li> <li>Workspace views – Normal, Outline, Notes, Slide sorter view.</li> </ul>	<ul> <li>Demonstrate to insert a new slide and duplicate slide in a presentation,</li> <li>Change the slide layout,</li> <li>Demonstrate to copy and move slides in the presentation,</li> <li>Demonstrate to copy, move and delete contents of the slide,</li> <li>Demonstrate to view a presentation in different views.</li> </ul>

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
4.	Format text and apply animations	<ul> <li>Formatting toolbar,</li> <li>Various formatting features,</li> <li>Text alignment,</li> <li>Bullets and numbering.</li> <li>Custom Animation</li> </ul>	<ul> <li>Identify and list the various options in formatting toolbar,</li> <li>Apply the appropriate formatting option</li> <li>Align the text in presentation,</li> <li>Apply bullets and numbering to the list items in presentation.   Apply Animation</li> </ul>
5.	Create and use tables	<ul> <li>Inserting tables in presentation,</li> <li>Entering and editing data in a table,</li> <li>Selecting a cell, row, column, table,</li> <li>Adjusting column width and row height,</li> <li>Table borders and background</li> </ul>	<ul> <li>Demonstrate the following:</li> <li>Insert table in presentation,</li> <li>Enter and edit data in a table,</li> <li>Select a cell, row, column, table,</li> <li>Adjust column width and row height,</li> <li>Assign table borders and background.</li> </ul>
6.	Insert and format image in presentation	<ul> <li>Inserting an image from a file,</li> <li>Inserting an image from the gallery,</li> <li>Formatting images,</li> <li>Moving images,</li> <li>Resizing images,</li> <li>Rotating images,</li> <li>Formatting using the Image toolbar,</li> <li>Drawing graphic objects – line, shapes,</li> <li>Grouping and un-grouping objects</li> </ul>	<ul> <li>Demonstrate to insert an image from file, gallery in presentation,</li> <li>Apply formatting options to image in presentation,</li> <li>Demonstrate to move, resize and rotate images,</li> <li>Apply formatting options of Image toolbar,</li> <li>Drawing line, shapes using graphic objects,</li> <li>Demonstrate to group and ungroup objects.</li> </ul>
7.	Work with slide master	<ul> <li>Slide masters,</li> <li>Creating the slide masters,</li> <li>Applying the slide masters to all slide,</li> <li>Adding transitions.</li> </ul>	<ul> <li>Create the slide masters,</li> <li>Apply the slide masters to the</li> <li>presentation,</li> <li>Add transitions to presentation.</li> </ul>