CHOITHRAM SCHOOL, MANIK BAGH, INDORE ANNUAL CURRICULUM PLAN SESSION 2017 – 2018

CLASS: VII SUBJECT: ICT

Month &	Theme/ Sub-theme	Learning	g Objectives		Activities & Resources	Expected Learning Outcomes	Assessment
Working Days		Subject Specific (Content Based)	Behavioural (Application based)				
June	Number System Sub-theme: Decimal Number System, Binary number System, Octal Number System, Hexadecimal Number System, Computer Arithmetic	 To learn about Decimal, Binary, Octal and Hexadecimal Number System. To enable students to convert decimal number into binary number. To enable students to convert binary number into decimal number. To enable students to perform binary addition, subtraction, multiplication and division. 	 To enable students to understand the importance and significance of different number systems. To enable students to understand the face value, positional value of the digits in the number. To enable students to understand the concept of base of the number system. To enable students to perform arithmetic operations and calculations. 	•	Written class test on Number System. (calculation) Presentation on Number System, types with features of every number system. Group discussion on Decimal Number System vs Binary Number System.	Student will learn about Decimal, Binary, Octal and Hexadecimal Number System. They will be able to convert decimal number into binary number, binary number into decimal number, to perform binary addition, subtraction, multiplication and division. Students will understand the importance and significance of different number systems. Students will learn about the face value, positional value of the digits in the number, concept of base of the number system.	Allotting sufficient time to students for conversions and to perform binary operations. Level of accuracy and understanding of different number systems.

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August	Working with layers	1) To make	1) To make students		Creating shape tween effect	Student will learnabout	Student will be asked to draw
	Sub-theme:	students able to	able to use this		showing emoji's conversion.	applyinggradient fill,	emojis and do conversion
	Layer introduction ,	animate objects	software in daily life	•	Drawing a car and showing car	modifying linear gradient,	using shape tween effect.
	Hide and show	using Shape	for making animated		standing at traffic signal.	animating objects using Tint	
	layers, Masking,	Tweening.	video clips (funny +	•	Creating solar system.	Tweening and Shape	On the basis of animation,
	Onion skin tool	2) To enable	informative) and to			Tweening, selecting,	creativity, innovation shown
		students to	design games.			renaming and adding new	by students.

select, re	name 2) It will make	layers, rotating objects using
and add	new students to think	Masking effect, animating
layers.	creatively.	objects using onion skin tool.
3) To ena	ble	Students will be able to use
students	to	this software in daily life for
rotate ob	jects	making animated video clips
using Ma	sking	(funny + informative) and to
effect.		design games creatively.
4) To ani	nate	
objects u	sing	
onion ski	n tool.	

Theme/ Sub-theme	Learning	g Objectives		Activities & Resources	Expected Learning Outcomes	Assessment
	Subject Specific	behavioral				
	(Content Based)	(Application based)				
Theme: The Virus Sub-Theme: Types of virus Virus Symptoms Prevention by Antivirus software	 To make To make students aware about terms like Trojan horse, worm, malware and spyware. To enable students to learn about types of virus and virus symptoms To enable students by giving tips on 	 1) To make students aware about on ethical surfing and searching on internet. 2) To make students understand to use licensed software. 	•	PPT on virus symptoms and preventing virus infection using antivirus software.	Student will learnabout terms like Trojan horse, worm, malware and spyware, types of virus and virus symptoms . They will learn about preventing virus infection usage and working of antivirus software	Student will be asked to make ppt on types of virus, malwares, symptoms of virus infection and preventing virus infections using antivirus software. Way of presentation and level of content
	Theme: The Virus Sub-Theme: Types of virus Virus Symptoms Prevention by	Subject Specific (Content Based)Theme: The Virus Sub-Theme: Types of virus1) To make students aware about terms like Trojan horse, worm, malware and spyware. 2) To enable students to learn about types of virus and virus symptoms 3) To enable students by	Subject Specific (Content Based)behavioral (Application based)Theme: The Virus Sub-Theme: Types of virus1) To make students aware about terms like Trojan horse, worm, malware and spyware. 2) To enable students to learn about types of virus and virus symptoms1) To make students aware about on ethical surfing and searching on internet.Antivirus softwareand spyware. 2) To enable students to learn about types of virus and virus symptoms 3) To enable students by giving tips on How to preventbehavioral (Application based)	Subject Specific (Content Based)behavioral (Application based)Theme: The Virus Sub-Theme: Types of virus1) To make students aware about terms like Trojan horse, worm, malware and spyware. 2) To enable students to learn about types of virus and virus symptoms1) To make students aware about on ethical surfing and searching on internet.Antivirus software2) To enable students to learn about types of virus and virus symptoms1) To make students ethical surfing and searching on internet.3) To enable students by giving tips on How to prevent3) To enable students by giving tips on How to prevent	Subject Specific (Content Based)behavioral (Application based)Theme: The Virus Sub-Theme: Types of virus Virus Symptoms1) To make students aware about terms like Trojan horse, worm, malware and spyware. 2) To enable students to learn about types of virus and virus symptoms 3) To enable students by giving tips on How to prevent1) To make students aware about on ethical surfing and searching on internet.•PPT on virus symptoms and preventing virus infection using antivirus software.Prevention by Antivirus softwareTrojan horse, worm, malware and spyware. 2) To enable students to learn about types of virus and virus symptoms 3) To enable students by giving tips on How to prevent•PPT on virus symptoms and preventing virus infection using antivirus software.	Subject Specific (Content Based)behavioral (Application based)PPT on virus symptoms and preventing virus symptoms and preventing virus infection using antivirus software.Student will learnabout terms like Trojan horse, worm, malware and spyware. 2) To enable students to learn about types of virus and virus symptomsPPT on virus symptoms and preventing virus infection using antivirus software.Student will learnabout terms like Trojan horse, worm, malware and spyware. 2) To make students understand to use licensed software.PPT on virus symptoms and preventing virus infection using antivirus software.Antivirus softwareand spyware. 2) To enable students to learn about types of virus and virus symptoms 3) To enable students by giving tips on How to preventDenable students by giving tips on How to preventPPT on virus symptoms and preventing virus symptoms and preventing virus infection using antivirus software.

4) To mak	e them		
learn abo	ut		
usage and	1		
working o	of		
antivirus			
software			

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October	Theme: Formulas and Functions Sub-Theme: Basic, compound and text formulas, relative, absolute and mixed reference, sum, average, max, min function	 To make studentslearn how to create formulas (basic, compound and text formulas)in excel. To make students understand how to assign multiple cells to a formula by creating a reference (relative, absolute and mixed reference) or a range. To enable students to perform calculations using functions available within 	 To make students understand How formulas and Functions make calculations easy. To enable students to fill data in cells automatically using Auto Fill feature. Students will understand about the importance of spreadsheets and its utility for data organization and quantitative analysis. 	•	Creating a worksheet for Daily Routine. Lab activity given in the book to maintain record of player's salaries and represent graphically	Student will learn to create formulas (basic, compound and text formulas) in excel. They will understand how to assign multiple cells to a formula by creating a reference (relative, absolute and mixed reference) or a range. Students will be able to perform calculations using sum, average, max, min functions.	Student will be asked to performlab activity given in the book to maintain record of player's salaries and represent the pay scale graphically. On the basis of data collected and organized in spreadsheet and presenting the data using charts and graphs.

the software.		

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November	Theme: Using Excel	1) To make	1) To enable	•	Creating a worksheet showing time	Student will learn to use a	Student will be asked to
	as Database	students learn	students to enter or		spent on different social media and	form to enter new record,	create a worksheet showing
	Sub-Theme:	how to use a	display information		sites daily for 1 week.	searching a record and	time spent on different social
	Form, Adding,	form to enter	using forms.	•	To maintain record of Indoor and	deleting a record.	media and sites and to
	searching and	new record,	2) To enable		outdoor activities opted by	They will be able to analyze	maintain record of Indoor
	deleting a record,	searching a	students to arrange		students of the classroom.	data with pivot table.	and outdoor activities of
	sorting and filtering	record and	the data in			Students will be able to sort	students of classroom.
	data, data validation,	deleting a	alphabetical,			and filter data, students to	On the basis of data collected
	Pivot table	record.	increasing or			apply data validation	and organized in spreadsheet
		2) To enable	decreasing order.				and presenting the data using
		students to sort	3) Students will				charts and graphs.
		and filter data.	understand about				
		3) To enable	the importance of				
		students to apply	spreadsheets and its				
		data validation.	utility for data				
		4) To enable	organization and				
		students to	quantitative				
		analyze data with	analysis.				
		pivot table.	4) To enable				
			students to restrict				
			the cell entries				
			within a specified				
			range.				

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December	Theme: Advance	1) To make	1) To enable	 Worksheet of Progress Report of 	Student will learn to create	Student will be asked to

features of Excel	students learn	students to display	friends.	components of chart and	create worksheet of Progress
Sub-Theme:	about	data in pictorial		common chart types. They	Report of friends and show
Chart, Grouping	components of	form.		will understand how to create	the performance of friends
worksheet	chart and	2) To enable		chart, to format the chart and	pictorially by inserting the
	common chart	students to make		data series, change the scale	charts.
	types	comparisons and		of value axis.	On the basis of data collected
	2) To make	analysis of		They will be able to insert	and organized in spreadsheet
	students	information.		picture and group the	and presenting the data using
	understand how			worksheets.	charts and graphs.
	to create chart				
	3) To enable				
	students to				
	format the chart				
	and data series,				
	change the scale				
	of value axis.				
	4) To enable				
	students to				
	insert picture.				
	5) To enable				
	students to				
	group the				
	worksheets.				

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January	Theme: Graphics in	1) To make	1)To understand	•	Drawing a home using different	Student will learn about	Students will be asked to
	QBASIC	students aware	what is step by step		graphics statement.	terms like constants,	write programs to draw
	Sub-Theme:	about terms like	approach for	•	Programs to draw geometrical	variables, and types of each	geometrical figures (2-D
	Screen statement,	constants,	building a program.		figures (2-D figures) using graphics	term.	figures) draw a home or hut
	Color statement,	variables, and	To understand the		statement.	They will be able to write	using graphics statement.
	Line statement,	types of each	need of graphics to	•	Write a program to draw lines	programs using CLS, PRINT,	On the basis of
	Circle statement,	term.	draw shapes.		across screens in different colors.	INPUT command, END	logics applied and level of
	Play statement,		3) To enable	•	Write a program to draw the Hut.	statement	concepts used in

	Constant and its types, Variables and its types	2) To enable them to write programs using CLS, PRINT, INPUT command, END statement 3) To enable them to make decisions based on comparisons and conditions using If_Then and If_Then _Else statement. 4)To learn usage of QBASIC statements like screen statement, color statement, line statement, Play statement	understand pixel	•	Write a program to draw a filled box with color. Write a QBASIC program to draw a triangle with horizontal base. Write a QBASIC program to display a pixel on the screen.	Students will be able to make decisions based on comparisons and conditions using If_Then and If_Then _Else statement. They will learn usage of QBASIC statements like screen statement, color statement, line statement, circle statement, Play statement	programming
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February	Theme: Looping	1) To understand	1) To understand	•	Write a program to find the sum of	Student will learn the usage	Students will be asked to
	statements	formation of a	the concept of		squares of odd numbers up to 10	of FORNEXT ,Nested For	write programs to find the
	Sub-Theme:	loop using	iteration and		terms.	Next Loop, While Loop, Do	sum of squares of odd
	The For_Next loop,	FORNEXT,	looping.	•	Program to print table of 10	Until Loop	numbers up to 10 terms,
	For_Next with step,	Nested For Next	To make them	•	Program to find sum of 10 numbers		Program to print table of 10
	While _Wend, Do	Loop, While	aware about the	•	Program to print first five EVEN		Program to find sum of 10

Until	il Statement	Loop, Do Until	advantages of		numbers	numbers,	
		Loop.	iteration and	•	Program to print multiples of 5 in	Program to print	first five
	:	2) To enable	looping.		reverse order starting from 20	EVEN numbers	
		students to					
		understand the					
		concept of				On the basis of	
		control variable.				logics applied and	d level of
						concepts use	ed in
						programming	