



BISHOP SCOTT BOYS' SCHOOL

STUDENT CURRICULUM MANUAL

Subject : ICT

Class : VII

Academic Plan : 2025 -26

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
April	CHAPTER 1:NUMBER SYSTEM				PERIODIC TEST-I PORTION Chapter 1-Number System Chapter 2-Advanced Features of Excel TERM-I PORTION Chapter 1-Number System Chapter 2- Advanced Features of Excel
	Introduction to the Number System - Definition and importance - Types of number system(Decimal, Binary, Octal, Hexadecimal) - Understanding Bases(Base-2,10.8.16)	Students will be able to: - Define Number System and its importance in ICT. - Identify different types of number systems (Binary, Decimal, Octal, Hexadecimal) - Explain the base value of different number systems.	- Assign Students to research how number systems are used in computing(ex- IP addresses, machine codes) - Each students presents their findings to the class.	2	
	Conversions between Number Systems - Decimal to Binary - Binary to Decimal	Convert Numbers between decimal to binary and binary to decimal	Hands-on Activities: - Practice number system conversions and calculations. - Performing arithmetic operations in Python (Let's Code Book)	4	Chapter 3- Layers in Krita Chapter 4- Animations in Krita Chapter 5- Google apps Chapter 6-App Development

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April	Arithmetic Operations in Different Number Systems Binary Addition and Subtraction	Perform basic arithmetic operations(addition, subtraction)	- Provide binary numbers for addition/ subtraction - Students will solve them individually or in pairs	2	
May	CHAPTER 2: ADVANCED FEATURES OF EXCEL				
	Understand and apply Advanced features of excel - Sorting of Data - Custom Sorting - Filtering of Data - Conditional formatting to enhance data visualisation	Students will be able to: - Apply Sorting on Data - Apply filtering of Data - Apply Conditional formatting	- Concept explanations with live Excel Demonstrations. - Practical tasks to reinforce learning	4	
June	CHAPTER 3: LAYERS IN KRITA				
	Introduces Students to the concept of layers in digital art using Krita to develop: - Layers functionality - Layers practical application in creating digital art	Students will be able to: - Understand the Concept of Layers - Navigate the Krita Interface - Perform Layer Operations(creating,renaming,duplicating,merging and deleting,moving layers) - Organize the layers effectively	- Students will do the experiments with layers stacking ,applying different modes. - Students will be instructed to add new background layer, adding different objects of different colours.	5	Introduces Students to the concept of layers in digital art using Krita to develop: - Layers functionality - Layers practical application in creating digital art

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July	CHAPTER 4:ANIMATIONS IN KRITA				
	Chapter aims to develop students: - Understanding of digital animation concepts - Enhance practical skills using animation tools.	Students will be able to: - Understanding Animation Basics - To Create Simple animations - Utilise the Timeline and Keyframes	Creating a Bouncing Ball animation Instruct students to draw a ball on the first frame and then create subsequent frames showing the ball in different positions to simulate bouncing.	5	
	CHAPTER 5-GOOGLE APPS				
	This chapter aims at: - To familiarize students with tools such as Google Docs, Google sheets, Google Slides and Google Drive - To emphasize the practical application in daily tasks.	By the end of chapter , Students will be able to: - Understand the purpose of each Google app - Create and edit documents - Manage spreadsheets - Design Presentation - Utilizing Cloud Storage	- Hands-On Lab Sessions where they create and edit documents, spreadsheets and presentations. - Group activities encourage students to work together on shared documents - Writing algorithms for shopping online, for swapping two numbers.(Let,s Code book)	7	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
August	CHAPTER 6-APP DEVELOPMENT				
	This Chapter aims at: • Introduction to students to the fundamentals of creating mobile applications. • Equip them with the essential skills in designing and developing apps.	Upon completing this chapter , Students will be able to : • Understands the basics of mobile app development • Design simple user interfaces for mobile applications. • Test and debug simple mobile applications.	Students will be given assignments that encourage students to design user-friendly interfaces, fostering creativity and usability considerations.	10	
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September	REVISION FOR TERM-1			8	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
October	CHAPTER 7-MORE ON HTML5				PERIODIC TEST-II CHAPTER 7-MORE ON HTML5 CHAPTER 8- LISTS and TABLES in HTML5 TERM-II PORTION CHAPTER 5-GOOGLE APPS CHAPTER 7- MORE ON HTML5 CHAPTER 8-LISTS and TABLES in HTML5 CHAPTER 9- ALGORITHMIC INTELLIGENCE CHAPTER 10-CONDITIONAL STATEMENTS IN PYTHON CHAPTER 11-CONCEPT OF SMART LIVING
	This chapter aims at: - To enhance students' understanding of HTML5. - To focus on advanced elements and their practical applications.	By the end of the chapter, students should be able to: - Effectively use of semantics tags to create well-structured and accessible web pages. - Embedding of different background properties	- Create a web page to display information about different types of soils. Add an image in the background of the web page. Repeat the image on the x-axis. - Creating and using functions in scratch(Let's code book)	10	

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	<u>CHAPTER 8-LISTS and TABLES in HTML5</u>				
November	This chapter aims at: - To create and manage Lists and Tables - To introduce students Structuring capabilities of HTML5	Upon ending of chapter, students' will be able to: - Create various types of Lists to design and implement ordered, unordered and definition lists in HTML5. - Developing Nested Lists.	Students will code various types of Lists experimenting with different types and attributes to observe their effects.	6	
		- To build tables to display data systematically using HTML5 tags. - To utilize table attributes to improve the visual appeal and readability of Tables.	Develop a simple web page that incorporates multiple tables to display a structured information such as Students's timetable.	6	

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December	CHAPTER 9- ALGORITHMIC INTELLIGENCE				
	This chapter is structured to provide a comprehensive understanding of algorithmic principles.	By the end of the chapter students will be able to: • Understand and define algorithm • Design Simple algorithms • Use Flowcharts and pseudocodes • Apply algorithmic thinking	• Assigning Students with a common task(ex-making a sandwich) and have them write down the step- by step instructions ,highlighting the importance of order and clarity in algorithms. • Assigning students a simple problem (Such as determining the largest of three numbers) and guiding students to write the corresponding flowchart. • Operations on Strings in Python(+,*)[Let's Code book]	3	
	CHAPTER 10 -CONDITIONAL STATEMENTS IN PYTHON				

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December	This chapter is aims at: • Introduction to Conditional Statements • The if statements • The if...else statements • Nested Conditional statements • Practical applications that utilizes conditional statements.	By the end of the chapter Students' will be able to: • Understand the role of conditional statements in controlling program flow • Write Python Programs using if,if...else, and if...elif...else statements. • Implement nested conditional statements for complex conditions.	• Assignments of task to students where they will translate real-world decision making processes into python code. • Providing code snippets with internal errors for students to identify and fix ,enhancing their problem-solving skills.	7	
	CHAPTER 11-CONCEPT OF SMART LIVING				
January	This chapter aims at: • Integration of technology into daily life • How internet connected devices can enhance convenience, security, and energy efficiency in modern living space.	By the end of the chapter, students' will be able to: • Define Smart homes • Explain benefits of smart living • Identify smart devices • Understand IoT integration	• Classroom Discussion- Initiate a conversation about the evolution of household technology. • Students can make IoT Diagram to display how various smart devices in home can be interconnected through IoT emphasizing on control management.	6	
February	REVISION OF TERM-2				