



BISHOP SCOTT BOYS' SCHOOL

C - Curriculum

D - Development &

L - Learning

O - Objectives

7

ICT





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 Chapter 3- Layers in Krita Chapter 4- Animations in Krita Chapter 5- Google apps Chapter 6-App Development
	Introduction to the Number System <ul style="list-style-type: none">• Definition and importance• Types of number system(Decimal, Binary, Octal, Hexadecimal)• Understanding Bases(Base-2,10.8.16)	Students will be able to: <ul style="list-style-type: none">• 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.	<ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Decimal to Binary• Binary to Decimal	<ul style="list-style-type: none">• Convert Numbers between decimal to binary and binary to decimal	Hands-on Activities: <ul style="list-style-type: none">• Practice number system conversions and calculations.• Performing arithmetic operations in Python (Let's Code Book)	4	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
April	Arithmetic Operations in Different Number Systems <ul style="list-style-type: none"> Binary Addition and Subtraction 	<ul style="list-style-type: none"> Perform basic arithmetic operations(addition, subtraction) 	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Sorting of Data Custom Sorting Filtering of Data Conditional formatting to enhance data visualisation 	Students will be able to: <ul style="list-style-type: none"> Apply Sorting on Data Apply filtering of Data Apply Conditional formatting 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Layers functionality Layers practical application in creating digital art 	Students will be able to: <ul style="list-style-type: none"> Understand the Concept of Layers Navigate the Krita Interface Perform Layer Operations(creating,renaming,duplicating,merging and deleting,moving layers) Organize the layers effectively 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Layers functionality Layers practical application in creating digital art

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July	CHAPTER 4:ANIMATIONS IN KRITA				
	Chapter aims to develop students: <ul style="list-style-type: none"> • Understanding of digital animation concepts • Enhance practical skills using animation tools. 	Students will be able to: <ul style="list-style-type: none"> • Understanding Animation Basics • To Create Simple animations • Utilise the Timeline and Keyframes 	<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Understand the purpose of each Google app • Create and edit documents • Manage spreadsheets • Design Presentation • Utilizing Cloud Storage 	<ul style="list-style-type: none"> • 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	

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August	CHAPTER 6-APP DEVELOPMENT				
	This Chapter aims at: <ul style="list-style-type: none"> • 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 : <ul style="list-style-type: none"> • 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	
Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Effectively use of semantics tags to create well-structured and accessible web pages. Embedding of different background properties 	<ul style="list-style-type: none"> 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	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
	<u>CHAPTER 8-LISTS and TABLES in HTML5</u>				
November	This chapter aims at: <ul style="list-style-type: none"> To create and manage Lists and Tables To introduce students Structuring capabilities of HTML5 	Upon ending of chapter, students' will be able to: <ul style="list-style-type: none"> 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	
		<ul style="list-style-type: none"> 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	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
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: <ul style="list-style-type: none">• Understand and define algorithm• Design Simple algorithms• Use Flowcharts and pseudocodes• Apply algorithmic thinking	<ul style="list-style-type: none">• 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				

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
December	<p>This chapter is aims at:</p> <ul style="list-style-type: none"> • Introduction to Conditional Statements • The if statements • The if....else statements • Nested Conditional statements • Practical applications that utilizes conditional statements. 	<p>By the end of the chapter Students' will be able to:</p> <ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • 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	<p>This chapter aims at:</p> <ul style="list-style-type: none"> • Integration of technology into daily life • How internet connected devices can enhance convenience, security, and energy efficiency in modern living space. 	<p>By the end of the chapter, students' will be able to:</p> <ul style="list-style-type: none"> • Define Smart homes • Explain benefits of smart living • Identify smart devices • Understand IoT integration 	<ul style="list-style-type: none"> • 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 emohasizing on control management. 	6	
February	REVISION OF TERM-2				