BISHOP SCOTT BOYS' SCHOOL

C - Curriculum

D - Development &

L - Learning

O - Objectives

8

ICT

BISHOP SCOTT BOYS' SCHOOL

STUDENT CURRICULUM MANUAL

Subject : ICT	**Class : VIII**	**Academic Plan : 2025 -26**

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
April	**CHAPTER 1:COMPUTER NETWORKING**				**PERIODIC TEST-I PORTION** Chapter 1-Computer Networking Chapter 2-Krita-Image Editing **TERM-I PORTION** Chapter 1-Computer Networking Chapter 2-Krita-Image Editing Chapter 3- Trending Technologies Chapter 4- Images, Links & Frames in HTML5 Chapter 5- Frames in HTML5 Chapter 6-Algorithmic Intelligence
	Introduction to the Number System • **Introduction to Computer Networks** • **Advantages of Computer Networks** • **Network Terminology** • **Components of a network** • **Types of Computer Networks, Network Topologies** • **Wireless Networking Technologies, Protocols**	**Students will be able to:** • **Understand the concept and importance of computer networks.** • **Identify and describe various components and devices used in networking.** • **Comprehend the roles of different network architectures.**	• **An engaging activity to develop critical thinking and problem solving skills related to networking concepts.** • **Each students presents their findings to the class.** • **Python programs based on Conditional Statement and logical operators.(Let's Code Book)**	10	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
May	**CHAPTER 2:KRITA –IMAGE EDITING**				
	Understand and apply Krita's Interface and tools • **Introduction to Krita** • **Navigating the interface** • **Working with Layers** • **Basic image editing techniques**	**Students will be able to:** • **Navigating Krita's interface** • **Create a New File in Krita** • **Understanding Krita Tools** • **Tools to edit an image** • **Saving an Image**	• **Create a simple animation and experiment with different frame rates to observe changes in speed.** • **Practical tasks to reinforce learning**	**4**	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
	CHAPTER 3: TRENDING TECHNOLOGIES				

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June	**Introduces Students to the concept of:** • **Digital world Cyber Literacy** • **Computational Thinking** • **Artificial Intelligence**	**Upon completing the chapter Students will be able to:** • **Understand Emerging technologies** • **Develop Computational thinking** • **Comprehend Artificial Intelligence**	• **SDG activity: Connects digital literacy to understanding Sustainable development Goals,promoting global awareness**	**5**	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
July	**CHAPTER 4:IMAGES,Links & Frames in HTML5**				
	Chapter aims to develop students: • **Incorporating images in HTML5(<img> tag and its attributes such as src,alt,width,height)** • **Ctreating Hyperlinks using <a> tag** • **Implementing frames using <iframe> tag**	**By the end of the chapter,Students will be able to** • **Inserting Images** • **Linking Web pages** • **Adding Audio & Vedios** • **Inserting Frames**	• **Develop a navigation menu using hyperlinks that connects to a different sections of a multi-page website.** • **Students Design a simple image gallery showcasing various image with captions.**	**5**	

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Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
	CHAPTER 5-FORMS IN HTML5				
July	This chapter aims at: • Understang HTML5 Form Elements such as textboxes, radio buttons, dropdown lists eic. • Creating Basic HTML Form5 • Styling Forms with CSS	By the end of chapter, Students will be able to: • The <Form> tag • The <INPUT> tag • The <SELECT> tag • The <TEXTAREA> tag	• Hands-On Experience to design a Feedback Form • To design a Students' Registration Form • Programs On Looping Construct and Nested Loops(Let's Code Book).	**7**	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
August	**CHAPTER 6-ALGORITHMIC INTELLIGENCE**				
	This Chapter aims at: • Definition Of Algorithms • Algorithm Designs • Flowcharts and Pseudocodes • Real world Applications	Upon completing this chapter , Students will be able to : • Comprehend Algorithms • Develop Algorithms • Use Flowcharts • Identify applications	Students will be given assignments that encourage students to develop an algorithm to solve a simple problem such as calculating the average of a list of numbers and will design the flowchart of it .	**10**	

Month	Course Description	Learning Outcome	Activity	No. of	Portion for PT & TERM Assessment

				Periods	
September	REVISION FOR TERM-1			**8**	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
	CHAPTER 7-LOOPS IN PYTHON				**PERIODIC TEST-II**

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October	This chapter aims at: • Introduction to Loops • Types of Loops • Loop Control Statements	By the end of the chapter, students should be able to: • Understand the concept and importance of loops in programming • Differentiate between for and while loop • Utilize loop control Statements	• Multiplication Table generator • Printing of Sum of Even numbers • Pattern printing • Creating Functions in Python and calling them.(Let's code Book).	**10**	**CHAPTER 7-LOOPS IN PYTHON** **CHAPTER 8- FUNCTIONS AND STRINGS IN PYTHON** **TERM-II PORTION** **CHAPTER 5-FORMS IN HTML5** **CHAPTER 7- LOOPS IN PYTHON** **CHAPTER 8-FUNCTIONS AND STRINGS IN PYTHON** **CHAPTER 9- LISTS IN PYTHON** **CHAPTER 10-AI DOMAINS** **CHAPTER 11-DEVELOPMENT USING AI**
	CHAPTER 8: FUNCTIONS AND STRINGS IN PYTHON				
November	This chapter aims at: • Understand Functions • Manipulating Strings • Integrate Functions and Strings	Upon ending of chapter, students' will be able to: • Features of Function • Advantages of Functions • Components of Python Function • Types of Function In Python • Creating A function • Calling a Function	Hands On experience: • Write a function that counts the frequency of each character in a string. • Develop a function that reverses the characters in a String. • Create a function that determines whether a given string is a palindrome.	**12**	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment

Month	Course Description	Learning Outcome	Activity	No. of	Portion for PT & TERM Assessment
December	CHAPTER 9- LIST IN PYTHON				
	This chapter is structured to provide a comprehensive understanding of: • Introduction to Lists • Creating Lists • Accessing List Elements • List Operations • Creation of Nested List	By the end of the chapter students will be able to: • Creating a List • Modifying the List elements • Traversing a List • Slicing the List • List Methods • Python Functions	Hands ON experienceon: • Creating and Manipulating Lists • Indexing and Slicing • Using List Methods • Working With Nested Lists • Creating arrays and performing sorting and searching.(Let's Code book).	3	
	CHAPTER 10 –AI DOMAINS				
December	This chapter is aims at introductions of Domains of AI: • Data Science • Computer Vision • Natural Language Processing	By the end of the chapter Students' will be able to understand : • Domains of AI • Real Life applications of Different Domains Of AI	• Assignments of task to students draw a floor plan of a smart home,school,or city and write an interactive story using tools like the story speaker extension in Google Docs. • Python Program to print Squares of numbers from 2 to 25.(Let's Code Book)	7	

				Periods	
January	**CHAPTER 11-DEVELOPMENTS USING AI**				
	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 emohasizing on control management.	6	
Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
February	REVISION OF TERM-2				

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