



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
CHAPTER 1:COMPUTER NETWORKING					
April	Introduction to the Number System <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • 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	<u>PERIODIC TEST-I PORTION</u> <u>Chapter 1-Computer Networking</u> <u>Chapter 2-Krita-Image Editing</u>
					<u>TERM-I PORTION</u> <u>Chapter 1-Computer Networking</u> <u>Chapter 2-Krita-Image Editing</u> <u>Chapter 3- Trending Technologies</u> <u>Chapter 4- Images, Links & Frames in HTML5</u> <u>Chapter 5- Frames in HTML5</u> Chapter 6-Algorithmic Intelligence

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May	CHAPTER 2:KRITA -IMAGE EDITING				
	Understand and apply Krita's Interface and tools <ul style="list-style-type: none"> • Introduction to Krita • Navigating the interface • Working with Layers • Basic image editing techniques 	Students will be able to: <ul style="list-style-type: none"> • Navigating Krita's interface • Create a New File in Krita • Understanding Krita Tools • Tools to edit an image • Saving an Image 	<ul style="list-style-type: none"> • Create a simple animation and experiment with different frame rates to observe changes in speed. • Practical tasks to reinforce learning 	4	
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June	CHAPTER 3: TRENDING TECHNOLOGIES				
	Introduces Students to the concept of: <ul style="list-style-type: none"> • Digital world Cyber Literacy • Computational Thinking • Artificial Intelligence 	Upon completing the chapter Students will be able to: <ul style="list-style-type: none"> • Understand Emerging technologies • Develop Computational thinking • Comprehend Artificial Intelligence 	<ul style="list-style-type: none"> • SDG activity: Connects digital literacy to understanding Sustainable development Goals,promoting global awareness 	5	

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July	CHAPTER 4:IMAGES,Links & Frames in HTML5				
	<p>Chapter aims to develop students:</p> <ul style="list-style-type: none"> • Incorporating images in HTML5(tag and its attributes such as src,alt,width,height) • Ctreating Hyperlinks using <a> tag • Implementing frames using <iframe> tag 	<p>By the end of the chapter,Students will be able to</p> <ul style="list-style-type: none"> • Inserting Images • Linking Web pages • Adding Audio & Vedios • Inserting Frames 	<ul style="list-style-type: none"> • 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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	CHAPTER 5-FORMS IN HTML5				
July	<p>This chapter aims at:</p> <ul style="list-style-type: none"> • Understang HTML5 Form Elements such as textboxes, radio buttons, dropdown lists eic. • Creating Basic HTML Form5 • Styling Forms with CSS 	<p>By the end of chapter, Students will be able to:</p> <ul style="list-style-type: none"> • The <Form> tag • The <INPUT> tag • The <SELECT> tag • The <TEXTAREA> tag 	<ul style="list-style-type: none"> • 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	

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August	CHAPTER 6-ALGORITHMIC INTELLIGENCE				
	This Chapter aims at: <ul style="list-style-type: none"> • Definition Of Algorithms • Algorithm Designs • Flowcharts and Pseudocodes • Real world Applications 	Upon completing this chapter , Students will be able to : <ul style="list-style-type: none"> • 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	
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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-LOOPS IN PYTHON				10	PERIODIC TEST-II 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
	This chapter aims at: <ul style="list-style-type: none"> • Introduction to Loops • Types of Loops • Loop Control Statements 	By the end of the chapter, students should be able to: <ul style="list-style-type: none"> • Understand the concept and importance of loops in programming • Differentiate between for and while loop • Utilize loop control Statements 	<ul style="list-style-type: none"> • Multiplication Table generator • Printing of Sum of Even numbers • Pattern printing • Creating Functions in Python and calling them.(Let's code Book). 			
CHAPTER 8: FUNCTIONS AND STRINGS IN PYTHON						
November	This chapter aims at: <ul style="list-style-type: none"> • Understand Functions • Manipulating Strings • Integrate Functions and Strings 	Upon ending of chapter, students' will be able to: <ul style="list-style-type: none"> • Features of Function • Advantages of Functions • Components of Python Function • Types of Function In Python • Creating A function • Calling a Function 	Hands On experience: <ul style="list-style-type: none"> • 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		

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December	CHAPTER 9- LIST IN PYTHON				
	<p>This chapter is structured to provide a comprehensive understanding of:</p> <ul style="list-style-type: none"> • Introduction to Lists • Creating Lists • Accessing List Elements • List Operations • Creation of Nested List 	<p>By the end of the chapter students will be able to:</p> <ul style="list-style-type: none"> • Creating a List • Modifying the List elements • Traversing a List • Slicing the List • List Methods • Python Functions 	<p>Hands ON experienceon:</p> <ul style="list-style-type: none"> • 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	<p>This chapter is aims at introductions of Domains of AI:</p> <ul style="list-style-type: none"> • Data Science • Computer Vision • Natural Language Processing 	<p>By the end of the chapter Students' will be able to understand :</p> <ul style="list-style-type: none"> • Domains of AI • Real Life applications of Different Domains Of AI 	<ul style="list-style-type: none"> • 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	

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January	CHAPTER 11-DEVELOPMENTS USING AI				
	This chapter aims at: <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. 	By the end of the chapter, students' will be able to: <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	
Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
February	REVISION OF TERM-2				