Computer Curriculum 2024-2025

Aims of Curriculum

- 1. Develop knowledge and understanding of the range and organization of computer systems, and the interrelationships between hardware, software and data.
- 2. develop students into competent, effective, discriminating, ethical and confident users of ICT, so as to support their lifelong learning.
- 3. Use a range of applications software effectively, ethically and with discrimination to support information processing and problem-solving.
- 4. Demonstrate an understanding of methods for analyzing problems, and planning and implementing solutions using ICT.
- 5. Equip students with problem-solving and communication skills, and encourage them to think critically and creatively.

Curriculum Plan

S.1			
Topics to be covered	Technology Learning Elements	Term	
Computer System	Computer Systems		
File Management	Information Processing & Presentation		
Computer Ethics	National Security &	Einst Tomo	
	Value Education	First Term	
Logo Programming	Programming Concepts		
Word Processing	Information Processing & Presentation		
Quick Input Method	Information Processing & Presentation	Cassad	
Use of PhotoShop	Information Processing & Presentation	Second Term	
Swift Playground	Programming Concepts	Tellii	

S.2		
Topics to be covered	Technology Learning Elements	Term
Basic components of a computer system	Computer Systems	
Storage Units	Computer Systems	
Software	Computer Systems	
Programming Languages	Programming Concepts	First Term
Spreadsheet	Information Processing &	First Term
	Presentation	
Computer Ethics	National Security &	
	Value Education	
Introduction to HTML	Information Processing &	
	Presentation	G 1
Webpage Authoring with Dreamweaver	Information Processing &	Second
	Presentation	Term
Game Programming with Scratch	Programming Concepts	

S.3		
Topics to be covered	Technology Learning Elements	Term
Audio Editing	Computer Systems	
Video Editing	Information Processing &	
	Presentation	First Term
Introduction to AI with Computer Ethics	ction to AI with Computer Ethics Artificial Intelligence,	
(AI related)	National Security &	
	Value Education	
Python Programming + Programming	Programming Concepts	
Concept		
Introduction to AI with Computer Ethics	Artificial Intelligence,	Second
(AI related)	National Security &	Term
	Value Education	
Micro-bit	Systems & Control	

S.4 (New Syllabus 2025)		
Topics to be covered	Term	
Introduction to Information Processing		
Data Organization and Data Control	First Term	
Data Representation		
Relational Databases]	
SQL statements (1)	Second Term	
Computational Thinking & Programming (D1)		
Computer System Fundamentals		

S.5 (New Syllabus 2025)		
Topics to be covered	Term	
Computer System Fundamentals		
Computational Thinking & Programming (D2)	First Term	
Algorithm and Programming (Elective C)		
Database Design		
SQL statements (2)	Co and Town	
Internet and its Applications (C1)	Second Term	
Internet and its Applications (C2)		

S.6 (New Syllabus 2025)		
Topics to be covered	Term	
Internet and its Applications (C2)	First Term	
Technological Innovations		
Health and Ethical Issues		
Intellectual Property		