

## **Computer Curriculum 2025-2026**

### **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**

<b>S.1</b>		
<b>Topics to be covered</b>	<b><i>Technology Learning Elements</i></b>	<b>Term</b>
Computer System	<i>Computer Systems</i>	First Term
File Management	<i>Information Processing &amp; Presentation</i>	
Computer Ethics	<i>National Security &amp; Value Education</i>	
Logo Programming	<i>Programming Concepts</i>	
Word Processing	<i>Information Processing &amp; Presentation</i>	
Quick Input Method	<i>Information Processing &amp; Presentation</i>	Second Term
Use of PhotoShop	<i>Information Processing &amp; Presentation</i>	
Swift Playground	<i>Programming Concepts</i>	

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

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

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

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

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