

Computer Curriculum 2026-2027

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	<i>Technology Learning Elements</i>	Term
Computer System	<i>Computer Systems</i>	First Term
File Management	<i>Information Processing & Presentation</i>	
Computer Ethics	<i>National Security & Value Education</i>	
Word Processing	<i>Information Processing & Presentation</i>	
Quick Input Method	<i>Information Processing & Presentation</i>	Second Term
Use of PhotoShop	<i>Information Processing & 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	
Introduction to HTML	Information Processing & Presentation	
Computer Ethics	National Security & Value Education	
Spreadsheet	Information Processing & Presentation	
Spreadsheet advanced application	Information Processing & Presentation	Second Term
Programming Language	Programming Concepts	
Introduction to AI with Computer Ethics (AI related)	Artificial Intelligence, National Security & Value Education	

S.3		
Topics to be covered	Technology Learning Elements	Term
Impact of IT on Society & Ethics	National Security & Value Education	First Term
Python Programming	Programming Concepts	
Advanced Python Programming	Programming Concepts	Second Term
Advanced generative AI application	Artificial Intelligence, National Security & Value Education	

S.4	
Topics to be covered	Term
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	

S.5	
Topics to be covered	Term
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)	

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