

COMPUTER EDUCATION

CLASS VII

Yearly Syllabus 2026- 2027

S.No	Chapter Name	Sub-topics	Learning Outcomes	Assessment Questions
Half Yearly Examination				
1	Number System	Number System; Decimal to Binary Conversion; Binary to Decimal Conversion; Operations on Binary Numbers	Explain different number systems; convert numbers between decimal and binary; perform basic binary operations with accuracy	Define number system. Convert decimal to binary. Convert binary to decimal. Perform binary addition.
2	More on HTML5	HTML; Text Properties; Background Properties; Font Properties; Margin Properties	Design simple web pages using HTML; apply text, font, background and margin properties effectively	What is HTML? Explain text properties. How do you set background and margins in a web page?
3	Lists and Tables in HTML5	Creating Lists; Creating Tables	Create ordered, unordered lists and structured tables in HTML	What are types of lists in HTML? Write steps to create a table.
4	AI Domains and Applications	AI domains; Predictive techniques; Small datasets; Computer Vision; Natural Language Processing; Data Science	Identify different AI domains; relate AI applications to real-life examples; understand basic predictive concepts	What are AI domains? Explain Computer Vision and NLP with examples.
5	AI in Industries	AI in healthcare; Education; Transport; Communication; Benefits of AI	Explain use of AI in different industries; evaluate benefits of AI in daily life	How is AI used in healthcare and education? List benefits of AI.
Annual Examination				
6	Advanced Features of Excel	Sorting Data; Filtering Data; Conditional Formatting	Organize and analyze data using sorting and filtering; apply conditional	What is sorting? What is filtering? Explain conditional formatting with example.

			formatting for better data presentation	
7	Algorithmic Intelligence	Algorithmic Intelligence; Information Processing; Conditions in a Program	Understand problem-solving steps; explain how information is processed; apply conditions in logical thinking	What is an algorithm? What is information processing? Give example of conditions in program.
8	Conditional Statements in Python	Conditional Statements; if Statement; if-else Statement; Nested if; if-elif ladder	Write programs using conditional statements; differentiate between types of conditions; relate programming concepts with smart living	What is if statement? Difference between if-else and elif ladder?
9	Data Visualization and Analysis	Collecting and organising data; Data visualization; Interpreting data	Collect and organize data; represent data using charts; interpret data for decision making	What is data visualization? Why is interpreting data important?
10	Ethics and AI Bias Awareness	Ethics in AI; Bias in AI; Responsible and fair use; Digital citizenship	Understand ethical issues in AI; bias in data; promote responsible and fair use of technology	What is AI bias? Why is ethics important in AI? What is digital citizenship?

Computer Department

Middle Wing