

SUBJECT - COMPUTER

YEAR - 2026-2027

CLASS VIII

MID TERM 1

APRIL – MAY - CH 1: OPERATING SYSTEM

Competencies:

- Understands the concept of Booting
- Explains the role of an OS as a "manager"
- Identifies core functions
- Classifies operating systems based on functionality
- Distinguishes between CUI and GUI and can compare between them

JUNE – JULY - CH 2: SPREADSHEET - FUNCTIONS & CHARTS – excluding Charts

Competencies:

- Understands and applies different ways to enter formula
- Differentiates between types of cell referencing and applies them
- Differentiates between built-in functions, rules for writing functions and applies them
- Identifies rules for writing functions
- Understands sorting with application

HALF YEARLY

JULY – AUGUST - CH 2: SPREADSHEET - FUNCTIONS & CHARTS

Competencies:

- Understand the purpose of charts
- Create and choose appropriate chart types
- Formats charts
- Applies **Worksheet Customization & Management**

AUGUST - CH 3: ALGORITHM & FLOWCHARTS

Competencies:

- Defines logical sequential steps to solve a problem.
- Identifies characteristics of a good algorithm and applies them in practice
- Constructs simple algorithms for real-life tasks and mathematical operations
- Recognizes and uses standard flowchart symbols
- Converts a text-based algorithm into a visual flowchart

- Applies conditional logic for "If...Then...Else" scenarios.

AUGUST – SEPTEMBER - CH 4: PROGRAM CODING upto keywords Pg 57

Competencies:

- Explains the history and evolution of Java
- Identifies Java as a high-level, object-oriented, and platform-independent language.
- Understands the basic structure of a Java program
- Creates simple code for printing messages (without and with argument input)
- Recognises comments and applies them in code

Including : CH 2: SPREADSHEET - FUNCTIONS & CHARTS – full chapter

MID TERM 2

OCTOBER – NOVEMBER - CH 4: PROGRAM CODING

Competencies:

- **Applies** naming conventions for **Identifiers** and follows rules to avoid invalid statements.
- Recognises data types, operators - their characteristics and application in linear programming logic
- Differentiates between various types of errors such as **Syntax Errors** and **Runtime Errors**

NOVEMBER - CH 7: COMPUTER NETWORKING upto Pg 119

Competencies:

- **Defines** a computer network as a system of interconnected computers and peripheral
- **Explains** the need for and advantages of networking
- **Differentiates** between various types of networks
- **Identifies** and describe the roles of essential network components
- **Understands** different **Network Architectures**
- **Classifies** various **Network Topologies**
- **Recognizes** common **Wireless Networking Technologies**

DECEMBER - CH 5: CONDITIONAL STATEMENTS IN JAVA -upto pg 80

Competencies:

- **Defines** conditional statements as control structures
- **Implements** the simple if, if-else statement
- **Constructs** an else-if ladder to test multiple related conditions in sequence.
- **Implements** the switch statement as a multi-way branch

- **Differentiates** between the if-else and switch statements
- **Identifies** the role of the break and default keyword

FINAL ASSESSMENT

JANUARY - FEBRUARY - CH 5: CONDITIONAL STATEMENTS IN JAVA

Competencies:

- Defines looping as repeated execution of block
- Implements the for loop
- Applies Jump Statement to shift program control.

Included in Final Assessment

CH 4: PROGRAM CODING

CH 5: CONDITIONAL STATEMENTS IN JAVA (full chapter)

CH 7: COMPUTER NETWORKING upto Pg 119