

CBSE Class 12 Information Technology (IT)

Unit-wise syllabus and marks for the 2026-27 session.

UNITS	SESSION
5	2026-27

Exam pattern. Total 100 marks: Theory 60 marks (external) + Practical 40 marks. Theory paper is split into Part A Employability Skills (10 marks) and Part B Subject Specific Skills (50 marks: RDBMS 15, Web Based Applications 10, Java 20, Work Integrated Learning 5). Practical 40 marks: Java Program (10), SQL Queries - table creation plus 5 queries (10), Practical File (10), Viva Voce (5), and Project made in Java NetBeans (5).

Practical. 40-mark practical assessment. Hands-on lab work with MySQL and Java NetBeans. Students must maintain a practical file containing a minimum of 15 Java programs and 15 MySQL queries. A project (any application built using the Java NetBeans IDE) and a viva voce are also assessed. Class XII carries a total of 260 instructional hours across theory and practical.

#	UNIT AND TOPICS	MARKS
1	Unit 1: Database Concepts - RDBMS Tool Basics of RDBMS; SQL - Creating and Opening a Database; Creating and populating tables; Modifying the content and structure of a table; Ordering and Grouping records; Operating with multiple tables (joins)	—
2	Unit 2: Operating Web Based Applications Online Reservation Systems; E-Governance; Online Shopping and Bill payments; Online Tutorials and Tests; Project Management - Web Based Application development; Project essentials and tips; Case Study - Online Game; Case Study - Online Quiz	—
3	Unit 3: Fundamentals of Java Programming Introduction to Java and Object Oriented Programming; Java Language Elements; Operators; Control Flow; Array; Class Design; Exception Handling; Assertions	—
4	Unit 4: Work Integrated Learning IT - DMA Identification of Work Areas; Work Experience	—
5	Part A: Employability Skills (Class XII) Communication Skills - IV; Self-Management Skills - IV; Information and Communication Technology (ICT) Skills - IV; Entrepreneurial Skills - IV; Green Skills - IV	—

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