

Class XI Informatics Practices (Session 2026–27)

Month	Topic	Learning Objective	Resources/Art-Integrated Pedagogy Tools Used/ E-Resources	Learning Outcomes and Skills Learnt by Students
April	Introduction to Computer System	Identify hardware and software components; Differentiate between primary and secondary memory; Explain input/output devices and their functions	Lecture Method	● Know about computers, Its Components and Input ,output devices ● What is computer Memory and types of computer memory ● Softwares and different kinds of software

May	Database Concepts and Structured Query Language (SQL)	Understand database concepts and need of DBMS; Learn DDL, DQL, DML; Introduction to MySQL and database creation; Understand data types; Perform operations like CREATE, DROP; Use SELECT, WHERE, BETWEEN; Perform INSERT and DELETE	Lecture Method and Practical Implementation	• What is Database, DBMS, Keys used in DBMS? • Explanation of DDL,DML Statements
June	Summer Vacation			
July	Introduction to Python; Database Concepts & SQL (continued)	Understand Python syntax and structure; Use variables, data types, operators; Write basic programs; Learn SQL operators; Sorting using ORDER BY;	Explanation and Practical Implementation	• Basics Python and its structure, data types and different types data types used in Python • What are statements,expr

		Understand SQL data types		ession, debugging
August	Control Statements; Introduction to Artificial Intelligence	Use if, if-else, elif; Implement loops (for, while); Solve problems using control structures; Define AI; Identify applications; Understand basics of ML and automation; Discuss ethical concerns	Explanation and Practical Implementation	● Python :Control Statements and its types ● Introduction to AI,ML,NLP,AR,V R ● IOT,Cloud computing and its various services
September	Term Examination			
October	Lists & Dictionary	Create and manipulate lists (indexing, slicing, adding/removing); Work with dictionaries and methods;	Explanation and Practical Implementation	● Lists used in Python and its functions ● Dictionary ,types of Dictionary

		Apply in real-life scenarios.		,functions used in dictionary
November	NumPy	Understand NumPy arrays and operations; Learn advantages over lists	Explanation and Practical Implementation	What is Numpy and Operations done on Numpy arrays What are the advantages over Lists.