

BAGARIA BAL VIDYA NIKETAN

LAXMANGARH SIKAR

SYLLABUS & LESSON PLANNER - 2025-2026

Class	XI
Subject	Informatics Practices
Teacher Name	Nitin verma

Syllabus

Unit	Name of Book	Name of Chapter	Working Day	Period	Topic	Month	Week
Unit 1	(ip)Informatics Practices	Introduction to Computer System	36	54	Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. Software: purpose and types – system and application software, generic and specific purpose software.	April & May	6
Unit 2		Introduction to Python	38	57	Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements+E14, expressions, evaluation and comments, input and output statements, data type conversion, E14debugging. Control Statements: if-else, if-elif-else, while loop, for loop Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum() Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del(), clear()	June & July	6
Unit 3		Database concepts and the Structured Query Language	46	69	Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL Data Manipulation: INSERT, DELETE,UPDATE	August & September	8

Unit 4		Introduction to the Emerging Trends	24	36	Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.	Nov.	4
Unit -1	IP	Introduction to Computer System-REVISION	21	36	Revision Unit -1	DECEMBER	4
Unit-2	IP	Introduction to Python - REVISION	26	36	Revision Unit -2	January	4
Unit 3,4	IP	Database concepts and the Structured Query Language & Introduction to the Emerging Trends-REVISION	24	36	Revision Unit3,4	February	4