

ARMY PUBLIC SCHOOL, BANGALORE
SPLIT UP SYLLABUS 2023-24

CLASS - XI
SUBJECT- Informatics Practices

SL. NO.	MONTH & WORKING DAYS	CONTENT
1.	APRIL, 14 DAYS	-
2.	JUNE, 24 DAYS	Unit 1:- Introduction to Computer System Basics of Computer systems, Components, I/O, 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. Unit 2: Introduction to Python Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators,
3.	JULY, 23 DAYS	Unit 2: Introduction to Python precedence of operators, data types, mutable and immutable data types. statements, expressions, evaluation,
4.	AUG, 24 DAYS	Unit 2: Introduction to Python - Input and output statements, data type conversion, comments , debugging. Control Statements: if-else, if-elif-else, for loop
5.	SEPT, 22 DAYS	Unit 2: Introduction to Python- Revision

6.	OCT, 16 DAYS	<p>Unit 2: Introduction to Python - Control Statements: for loop, while loop</p> <p>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()</p> <p>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()</p>
7.	NOV, 21 DAYS	<p>Unit 3: Database concepts and the Structured Query Language Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of domain, tuple, relation, Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language</p> <p>Unit 3: Database concepts and the Structured Query Language Database Concepts: Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE DATABASE</p>
8.	DEC, 18 DAYS	<p>Unit 3: Database concepts and the Structured Query Language Database Concepts: CREATE TABLE, DROP, ALTER, Data Manipulation: INSERT, DELETE,</p> <p>Unit 3: Database concepts and the Structured Query Language Database Concepts: Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL</p>
9.	JAN, 23 DAYS	<p>Unit 3: Database concepts and the Structured Query Language Database Concepts: Data Manipulation: UPDATE ,candidate key, primary key, alternate key</p> <p>Unit 4: Introduction to the Emerging Trends Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart</p>

		cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.
10.	FEB, 24 DAYS	Revision
11.	MARCH, 21 DAYS	

BOOKS: NCERT Textbook/Informatics Practices Class XI - Sumita Arora