Class- 11   Subject- Informatics Practices(065)

Sl.No	MONTHS	W/D	T/D	CHAPTER'S NAME/TOPIC	STATUS
1	June	18	15	**Unit 1: Introduction to Computer System** 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.	
2	July	27	23	**Unit 1. Introduction to Computer System** 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 program, indentation, identifiers, Keywords, constants, types of operators, precedence of operators, data types, mutable and immutable data types. Statements, expression evaluation, comments, input and output. statements, data type conversion debugging. Control statement if-else, while loop, for-loop.	
3	August	22	18	**Unit 2: Introduction to python.** List: list operation-creation, initializing, traversing and manipulating lists, list method 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 updating and deleting elements, dictionary methods and built in functions - dict(), len(), Keys(), values(), items (), update (), del, clear().	
4	September	22	9	**REVISION OF UNIT-1, UNIT-2.**	
5	October	15	12	**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, Candidate key, primary key, alternate key. Advantages of using SQL, Data Definition Language, Data Query Language and Data Manipulation Language.	
6	November	24	20	**Unit 3: Database Concepts and the Structured Query Language.** Introduction to MySQL, creating a database using MySQL, Data types. Data Definition: Create Database CREATE TABLE, DROP	

				TABLE, ALTER. Data Query: SELECT, FROM, WHERE with relational operator, BETWEEN, Logical operators, Is NULL, IS NOT NULL. Data Manipulation: INSERT, UPDATE, DELETE.	
7	December	24	19	**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 Cities.	
8	January	22	17	**Unit 4: Introduction to the Emerging Trends** Cloud Computing and Cloud Services (Saas, Iaas, Paas) Grid Computing, Block Chain Technology. **Revision of Unit-1, Unit-2, Unit-3 & Unit -4.**	
9	Feb	24	15	**Solving Sample papers.**	

- ## **Note** :-

- **Book Name :- Informatics Practices with Python 11 by Sumita Arora**
- **Publishers :- Dhanpat Rai**
- **Teacher's Name:- Mr. Aman Kumar Sharma**