LOVE DALE RESIDENTIAL SCHOOL (SENIOR SECONDARY)

YEAR PLAN FOR ACADEMIC SESSION: 2024-25

Class:XI Subject:INFORMATICS PRACTICES

S.No	Month	Unit no	Nameofthechapter/topictobecovered	TeachingAids/E-Content/Innovativepracticestobe adopted	Practicals/project
1	**JUNE**	Unit I	**Introduction to Computer System** •, Input/output devices. •Computer Memory: Units of memory, types of memory – primary and secondary, datadeletion,itsrecoveryandrelatedsecurityconcerns. •Typesofsoftware Software:purpose and types– system and application software, generic and specific purposesoftware. .	Powerpointpresentationor E-contenton	ASSIGNMENT I/O Devices
2	**JULY**	Unit II	**Introduction to Python Basics of Python programming** •Basics of Python programming, Python interpreter – • interactive and script mode, the structure ofa program,indentation,identifiers, keywords, constants, variables, • operators, precedenceofoperators, datatypes, mutableandimmutabledatatypes,statements ,•executingasimple"helloworld" program	Python Programmingtools(IDLE/Anacondanavigator)	Python program lab activitybegining •starting Rough recordwriting

3	**AUGUST**		• Python tokens •variables •Data types:mutableandimmutable datatypes •Operators •Type conversion (explicit& implicit conversion) **Errors**: syntaxerrors,logicalerrors,runtimeerrors •Flowofcontrol:introduction, useofindentation,sequentialflow,conditionalanditerativeflow control	Powerpointpresentationor E-contentonPYTHON	Python program lab activity
4	**SEPTEMBER**	Unit III	**Database concepts and the Structured Query Language** • Database concepts •Structured Query Language •DatabaseManagementSystem. •Relationaldatamodel:Conceptofdomain, •Data Definition Language, Data Query Language and Data Manipulation Language,	SQL INSTALLLATION	SQL lab INTRODUCTION
5	**OCTOBER**	Unit III **(continues…)**	**Introduction to MySQL**, •CREATE DATABASE, •CREATE TABLE, DROP, ALTER •Data Query: SELECT, FROM, WHERE with relational operators	Tutorial on data types	SQL LAB QUERYING

6	**NOVEMBER**	Unit III **(continues…)**	BETWEEN, logical operators, IS NULL, IS NOT NULL Data Manipulation: INSERT, DELETE,UPDATE		**record Completion & correction**
7	**DECEMBER**	Unit III	**Introduction to the Emerging Trends** • Artificial Intelligence • Machine Learning, • Natural Language Processing • 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.	Seminars,presentationsprepared byStudents	Revision on lab programs
8	JANUARY		Revision work /practical lab exam		
9	FEBRUARY		Exam		