

LOVE DALE RESIDENTIAL SCHOOL (SENIOR SECONDARY)

YEAR PLAN FOR ACADEMIC SESSION: 2024-25

Class: XII

Subject: COMPUTER SCIENCE

S.No	Month	Unit no	Nameofthechapter/topictobecovered	TeachingAids/E-Content/Innovativepracticestobe adopted	Practicals/project
1	JUNE	Unit III	<p>DatabaseManagement</p> <ul style="list-style-type: none"> •Database concepts •Relational data model •StructuredQueryLanguage • <p>joins:cartesianproductontwotables,equi-joinandnaturaljoin</p> <ul style="list-style-type: none"> •CreatingDatabaseconnectivity Applications <p>InterfaceofpythonwithanSQLdatabase:</p>	MySQLDatabaseSoftware-toimportMySQLconnectivitymodule usingpipinstaller	<p>SQL queries lab activity</p> <p>SQLcommandsinMySQLforjoiningtables</p>
2	JULY	Unit I	<p>Functions</p> <ul style="list-style-type: none"> •functionreturningvalue(s), •flow ofexecution •scopeofavariablen(scope,localscope) •ExceptionHandling:Introduction,handlingexceptionsusingtry-except-finallyblocks 	Python Programmingtools(IDLE/Anacondanavigator)	<p>Function program lab activity</p> <p>Project planning</p> <ul style="list-style-type: none"> •Data collection •starting record writing
3	AUGUST	Unit I (continues...)	<p>Introductiontofiles,</p> <ul style="list-style-type: none"> •Typesoffiles(Textfile,Binaryfile,CSVfile),relativeandabsolute paths •Textfile:openingatextfile •Textfileopenmodes(r,r+,w,w+,a,a+),closingatextfile,openingafileusingwithclause 	PythonProgrammingtools(IDLE/Anacondanavigator)	<p>File programs lab activity</p> <p>Project data organizing</p>

			<ul style="list-style-type: none"> • Binary file: basic operations on a binary file: • opening file open modes (rb, rb+, wb, wb+, ab, ab+) • close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file 	Powerpoint presentation or E-content on File handling (Text file, binary file, csv file)	
4	SEPTEMBER	Unit I (continues...)	<ul style="list-style-type: none"> • CSV file: import csv module, open/close csv file, write into a csv file using csv.writer() and read from a csv file using csv.reader() • Data Structure: Stack, operations on stack (push & pop), implementation of stack using list. 	Programming tutorial On files	Stack program lab activity Project code correction
5	OCTOBER	Unit II	<p style="text-align: center;">Computer Networks</p> <ul style="list-style-type: none"> • Evolution of networking • Data communication terminologies • Transmission media • Network devices • Network topologies and Network types • Network protocol • Introduction to web services 	Powerpoint presentation or E-content on computer Networks	Project testing/ Record correction

6	NOVEMBER		Revision of Python topics covered in Class XI.		Project/record Completion & correction
7	DECEMBER		Model practical Lab exams		Preboard-I
8	JANUARY		Remedial classes & Practical Examinations		Preboard-II
9	FEBRUARY		Remedial classes		Board Examinations

