

COMPUTER SCIENCE (083)

CLASS XII

Date	working days	Content	Learning Outcomes/SDG	assignment/HW
APRIL 1-15	10	Unit-1 Computational Thinking and Programming – 2 Revision of the basics of Python covered in Class XI.	apply the concept of function	questions from python covered in class XI
16-30	12	Functions: scope, parameter passing, functions using libraries:		Assignment of UDF output questions.
MAY 1-15	11	Unit III: Database Management Database Concepts:	use Database concepts, SQL	Assignment of MYSQL queries using DDL and DML commands
	8	Data Types: SQL commands,SQL functions:		
JULY 1-15	12	Concept of domain, relation, tuple, attribute, degree, cardinality, Joins: equi-join and natural join primary key, candidate key, alternate key and foreign key;	Retrieve and manipulate data in RDBMS using Structured Query Language	Assignment of Two table queries
16-31	14	Relational data model:		Assignment of Database mgt system
AUG 1-15	11	Unit II: Computer Networks Complete unit II will be covered in this month	access to job opportunities, professional connections, career advice, new ideas, and valuable information.	Assignment of Case study questions of Networking
16-31	12	Revision of UNIT-2,UNIT -3 for half yearly Examination		
SEP 1-15	11	Practicals of Half yearly will be conducted		Completion of practical file
16-30	12	Half Yearly Examination		
OCT 1-15	8	File handling:Text File:Binary File: CSV File: Using Python libraries:	explain and use the concept of file handling.	Assignment of file handling questions sample papers
16-31	10			
NOV 1-15	11	Data-structures: Lists as covered in Class XI, Stacks – Push, Pop using a LIST	use basic data structure: Stack	Assignment of menu driven program of Stacks using List
16-30	12	Project (that uses the concepts learnt in Class 11 and 12)		
DEC 1-15	12	Preboard Examination		
16-31	13			

Academic planner-2025-26

Teaching Paedgogy/ Mode of Assessment	Interdisciplinary asped	21st Century Skills
Demo of UDF and practical of UDF in the lab throughout the month. UDF practical and theory will be completed in this month	C++,Data Science	Problem Solving
Demo of MYSQL and various DDL and DML mcommands will be done varous questions from previous sample papers in practical	Data Science, MS Access	Problem Solving
Completion of MYSQL practical tables Completion of MYSQL practical file.	Data handling softwar MS Access Data Science	Pair Programming
class tests will be conducted presentation will be done by students regarding each and every topic of Networking	Cyber safety cyber security	Design Thinking
Completion of practical file HALF YEARLY EXAMINATION		
Practical of File handling topic in lab Practical file will be completed	Coding	Self directed Learning
Project discussion Syllabus will be completed Conducting Tests Project discussion		
Submission of project and Practical files ASSESSMENT TEST		Self directed Learning

