DELHI PUBLIC SCHOOL, JAMMU
Session : 2023-2024

Subject: Computer Science (083) Class: XII

Syllabus Bifurcation

Computer science is **the study of computation, automation, and information**. Computer science spans theoretical disciplines (such as algorithms, theory of computation, and information theory) to practical disciplines (including the design and implementation of hardware and software).

OBJECTIVES OF THE THEORY:

To produce programmers equipped with an understanding of

1. Fundamental computational concepts underlying most programming languages.
2. The role of programming within the overall software development process.

S.no	Month	Name of the Lesson/Topic
1.	April	Review of Python Basics Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope) • Assignment/Foundation Worksheet to assess the previous knowledge.
2.	May	Functions (contd.) • Revision Sheet on the related topic.
3.	June &July	File Handling (Text file, Binary File) • Class Test to be conducted for revision purpose.
4.	August	File Handling (CSV files contd..), Computer Networks • Performing the Practical Test for the related topic.
5.	September	Computer Networks(contd.) , Introduction to Database Management • Kahoot Quiz Activity

6.	October	Database Management, Aggregate functions (max, min, avg, sum, count), group by, having clause, joins : Cartesian product on two tables, equi-join and natural join • Solving Questions Based on Previous Year Question Papers.
7.	November	Interface Python with MySQL • Revision Test through Assignments
8.	December	Data structure: Stacks using List • Assessment of Project Work
9.	January	Revision of File Handling & My SQL • Class Tests/ Practical Implementation of the Programs to be done
10.	February	Doubt clearing session • Quick Recap of Most Important Topics for Practical Exams
11.	March	Revision for Final Examination • Practice of Sample Question Papers

EXAM SCHEDULE

Syllabus for Formative Assessment-I

1. Review of Python Basics
2. Functions

Syllabus for Half Yearly Examination

1. Review of Python Basics
2. Functions in Python
3. File Handling
4. Computer Networks

Syllabus for Pre-Board-I

1. Review of Python Basics
2. Functions in Python
3. File Handling
4. Computer Networks
5. My SQL, Interface Python with MySQL

Syllabus for Pre-Board-II

1. Review of Python Basics
2. Functions in Python
3. File Handling
4. Computer Networks
5. My SQL, Interface Python with MySQL
6. Data structure(Stacks using List)

(SUBJECT COORDINATOR)