

DELHI PUBLIC SCHOOL, JAMMU
Session : 2022-2023

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.

<u>S.no</u>	<u>Month</u>	<u>Name of the Lesson/Topic</u>
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)
2.	May	Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths
3.	July	File Handling (Text file, Binary File contd..)
4.	August	File Handling (CSV files contd..), Computer Networks
5.	September	Computer Networks(contd.) , Introduction to Database Management

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
7.	November	Interface Python with MySQL
8.	December	Data structure: Stacks using List
9.	January	Revision of File Handling & My SQL
10.	February	Doubt clearing session
11.	March	Final Examination

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)