



DELHI PUBLIC SCHOOL, PAKUR

Affiliated to C.B.S.E., New Delhi, Up to 10 +2 Level

(Affiliation Number-3430354)

(SYLLABUS BI-FURCATION)

Class-XII

S.N	SUB	EXAM.	FULL SYLLABUS
1.	COMP. SCS	UT-1	<i>Unit 1: Python Revision Tour – I</i> <i>Unit 2: Python Revision Tour – II</i> <i>Unit 3: Working with Functions</i> <i>Unit 4: Using Python Libraries</i>
		HYL	<i>Unit 5: File Handling</i> <i>Unit 6: Recursion</i> <i>Unit 7: Idea of Algorithm Efficiency</i> <i>Unit 10: Communication and Network Concepts</i> <u>PRACTICAL</u> Python programming <ul style="list-style-type: none">❖ <i>Read a text file line by line and display each word separated by a #.</i>❖ <i>Read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file.</i>❖ <i>Remove all the lines that contain the character 'a' in a file and write it to another file.</i>❖ <i>Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message.</i>❖ <i>Create a binary file with roll number, name and marks. Input a roll number and update the marks.</i>❖ <i>Write a random number generator that generates random numbers between 1 and 6 (simulates a dice).</i>❖ <i>Write a python program to implement a stack using list.</i>❖ <i>Create a CSV file by entering user-id and password, read and search the password for given user- id.</i>❖ <i>Write a function push () which takes "name" as argument and add in a stack named "mystack".</i>

			<p>After calling <code>push()</code> three times, a message should be displayed "stack is full"</p> <ul style="list-style-type: none"> ❖ Write a function <code>addemp ()</code> and <code>delemp ()</code> to add a new employee name and remove an employee name from a listemp, considering them to act as push and pop operations of stack data structure in python. ❖ Write a function <code>addbook ()</code>, <code>delbook ()</code> and <code>disbook ()</code> to add a new book name, remove a book name and to display book in stack format, according to data structure in python.
	UT-2		<p>Unit 8: Data Structures – I Unit 9 : Data Structures -II Unit 11 : Relational Database Unit 12: Simple Queries in SQL Unit 13: Table Creation and Data Manipulation Unit 14: Grouping Records , Joins in SQL Unit 15: Interface Python with My SQL</p> <p style="text-align: center;"><u>PRACTICAL</u></p> <p>Database management</p> <ul style="list-style-type: none"> ● create a student table and insert data. <p>Implement the following SQL commands on the student table:</p> <ul style="list-style-type: none"> ❖ Write sql command to show all databases. ❖ Write command to create table 'student'. ❖ Write command to add new column 'city' in 'student' table. ❖ Write command to modifying and existing column definition or data type. ❖ Write command to removing or drop column. ❖ Write command to insert data for all the columns into tables. ❖ Write command to insert data into specific columns of tables. ❖ Write command to delete any data of table. ❖ Write SQL command to show name, marks and city only. ❖ Write SQL command to show all cities names. ❖ Write SQL command to show students name having marks more than 75. ❖ To display student name and stream name by joining both tables 'student' and 'stream'. ❖ To display all data in ascending order by name and descending order by stream. ❖ To display maximum marks scored by each stream. ❖ To display sum of marks scored by each stream. ❖ To display all student who has opted 'arts' stream.

		<ul style="list-style-type: none"> ❖ Write SQL command to show all information of 'student' table. ❖ Write command to update any column using expression or formula. ❖ Write command to update any single column. ❖ Write command to rename existing column. <p>Part(c) –Python Database Connectivity</p> <ul style="list-style-type: none"> ❖ Write a program to display all record from table 'student' using my SQL database connectivity in python. ❖ Write a program to display all one record from table 'student' using my SQL database connectivity in python.. <p style="text-align: center;"><u>PROJECT (Any One in a group of 4 students)</u></p> <ul style="list-style-type: none"> ❖ Result maker using the concept of python database connectivity ❖ School management system ❖ Railways ticket management system ❖ Airlines ticket management system <p>Medicine ERP System</p>
	<p>PRE-BOARD -2</p>	<p style="text-align: center;"><i>Full syllabus according to CBSE Board</i></p>