Cambridge INTERNATIONAL SCHOOL KULLU

Curriculum
Subject – Computer Science (Code -083)
Class – XII
Session 2026-2027

Month	April	May	June	July
Content	**Computer Networks-I/ Computer Networks-II/ Relational Database.**	**Relational Database/ Simple Queries in SQL/ Table creation and data Manipulation Commands**	**Table creation and data Manipulation Commands/ Grouping Records, Joins in SQL/ Interface Python with MySQL**	**Interface Python with MySQL/ Python Revision Tour-I/ Python Revision Tour-II**
Learning Outcomes	● Students will be able to : ● Define networks and its types. ● Comprehend transmission media ● Describe network devices. ● Comprehend different protocols. ● Evaluate network security concepts. ● Analyze DBMS and MySQL. ● History of SQL.	Students will be able to : ● Explain SQL elements ● Implement SQL commands. ● Execute SQL function ● Create Database Tables. ● Execute DML and DDL commands	Students will be able to : ● Execute ALTER and DROP TABLE command. ● Execute SQL functions. ● Comprehend joins. ● Introduce connection of MySQL to python.	Students will be able to : ● Perform insert and update queries. ● Explain python and its data types ● Describe looping statements. ● Execute simple output and input. ● Execute and Differentiate between strings, list & tuples.
Skills	Understanding/Creation	Creation/Application/Knowledge	Creation/Application/Knowledge	Creation/Application/Knowledge
Software	Power Point/MySQL	Power Point/MySQL	Power Point/MySQL	Power Point/MySQL
Competency skills based activity / Experiential learning	Create a presentation stating the importance of learning SQL. **Integration with: English, Commerce, Social Science.**	Create a database and apply SQL commands. **Integration with: English, Commerce, Social Science, Science and math**	**Integration with :English, math Science**	Create a database and perform insert and update queries. **Integration with: English, Math and Science**

Assessment: Class Response, Homework, Class Test and Practical Work.

Cambridge INTERNATIONAL SCHOOL KULLU

Curriculum
Subject - Computer Science (Code -083)
Class – XII
Session 2026-2027

Month	August	September	October	November
Content	**Python Revision Tour-II/ Working with Functions/ Project**	**Working with Functions/ Using Python Libraries File Handling/ Project**	**File Handling/ Exception Handling/ Project**	**Exception Handling/ Data Structure**
Learning Outcomes	Students will be able to : ● Describe sorting techniques ● Execute and describe function and calling a function. ● Implement passing of parameters ● Comprehend scope of variables ● Create **a project** using SQL concepts.	Students will be able to : ● Illustrate properties of passed data. ● Describe libraries and modules in python. ● Implement library functions. ● Create and use data files. ● Analyze input, output and error streams ● Create **a project** using python	Students will be able to : ● Access onto a binary file ● Explain concepts of exception handling ● Analyze exception handling in python	Students will be able to : ● Handle multiple errors. ● Represent elementary data ● Differentiate between data structures. ● Describe stacks ● Analyze operations on data structure.
Skills	Understanding/Creation	Understanding/Creation/Application/ Knowledge	Implementation/Creation/Application/ Knowledge	Implementation/Creation/Application/ Knowledge
Software	Python/Visual Studio	Python/ Visual Studio	Python/ Visual Studio	Python/ Visual Studio
Competency skills based activity / Experiential learning	Create a program using python function. **Integration with: English, Math and Science.**	Create a program using python **Integration with: : English, Math and Science**	**Create a major** project using python. **Integration with: : English, Math and Science**	Create a major project using MySQL. **Integration with: : English, Math and Science**

Assessment: Class Response, Homework, Class Test and Practical Work.