

Standard Operating Procedure (SOP) for Computer Language Courses for 9-10 Standard Students in RBSE Schools.

Course Overview and Objective:

- The objective of this SOP is to ensure that computer language courses provided to 9-10 standard students in RBSE schools are conducted effectively, efficiently, and consistently to achieve the desired learning outcomes.

Course Content:

Introduction to Programming

- What is programming?
- Why do we need programming?
- Basic concepts of programming
- Introduction to C language

Variables, Data Types and Operators

- Introduction to variables
- Data types in C (int, float, char, etc.)
- Arithmetic, relational and logical operators
- Expressions and statements

Control Structures

- Decision making with if-else statements
- Nested if-else statements
- Switch case statements
- Looping with while, do-while and for loops

Arrays and Strings

- Introduction to arrays
- Single and multi-dimensional arrays
- Strings in C
- String manipulation functions

Functions and Pointers

- Introduction to functions
- Defining and calling functions
- Recursion
- Introduction to pointers
- Pointer arithmetic

File Handling

- Introduction to file handling
- File modes and operations
- Reading and writing to files
- Error handling in file operations

Mini-Project

- Students will work on a small project using the concepts learned in the course

Note: The above course content is just a suggestion and can be modified as per the requirements of the school and the students. It is recommended that the course be taught using a mix of theory and practical sessions to give students hands-on experience with programming.

Course Delivery:

- The course should be delivered in a structured manner, following the below guidelines:
- Conduct classes in a well-equipped computer lab with necessary hardware, software, and internet connectivity.
- Assign qualified and experienced instructors who are well-versed in the course content and good in the coding languages being taught.
- Follow a pre-designed curriculum with clear learning objectives and outcomes.
- Use interactive teaching methods, such as lectures, demonstrations, group discussions, and practical coding exercises, Quiz to engage students and facilitate learning.
- Provide opportunities for students to ask questions and seek clarifications.
- Monitor student progress regularly and provide feedback to students and parents to track their performance and improvement.

Course Timings and Attendance:

- This is a Six months course which will consist of 24 Days (Friday/ Saturday of Every week). Course timings will be in coordination with the respective RBSE school.
- Student Attendance shall be taken through Google Form or by the respective instructor who is taking the session.
- Attendance is mandatory for all the students who want to be certified in the course being chosen by them.

Course Assessments and Certifications:

- Periodic tests will be conducted to assess the fruitfulness of course content being delivered to the students.
- Certification will only be provided to those who score marks above 60% in the Final Assessment.