NATIONAL PUBLIC SCHOOL
HSR LAYOUT, BANGALORE

INSTRUCTIONS FOR GRADE 12 COMPUTER SCIENCE PROJECT 2014-15

GUIDELINES

1. Preamble

The Purpose behind this is to consolidate the concepts and practices imparted during the course and to serve as a record of competence.

A group of two students as team or as single may be allowed to work on one project.

2. Project content

Project for class XII should ensure the coverage of following areas of curriculum:

a. Problem Solving
b. Data Structure
c. Object Oriented Programming in C++
d. Data File Handling

3. Theme

Theme of the project can be

➤ Any subsystem of a System Software or Tool
➤ Any Scientific or a fairly complex algorithmic situation.
➤ Business oriented problems like Banking, Library informationsystem, Hotel or Hospital management system, Transport query system
➤ Quizzes/Games
➤ Tutor/Computer Aided Learning Systems
➤ Online shopping

4. Aim

The aim of the project is to highlight the abilities of algorithmic formulation, modular programming, optimized code preparation, systematic documentation and other associated aspects of Software Development.

5. Assessment

The assessment would be through the project demonstration and the Project Report, which should portray Programming Style, Structured Design, Minimum Coupling, High Cohesion, Good documentation of the code to ensure readability and ease of maintenance.

CHECKLIST AND SCHEDULE

The Computer Science (C++) Project Report must contain following and in the same order as mentioned below:

- Cover Page (Preferably a colour printout in glossy paper)
- Certificate
- Acknowledgment
- Index
- Overview of C++
  - Introduction checklist
  - Evolution of C++
  - Features
  - Advantages
- Need for the Project/Synopses/Summary
- Requirements
  - hardware
  - Software
  - Instructions regarding how to install the project and use it are to be given. (It should be a sort of USER MANUAL) Can be supported by a flow chart
- Header Files (used in the Project along with the functions each file is supporting in the project.)
- Classes & Objects(Description of user defined classes and their purpose)
- Functions (Description of user defined functions and their purpose)
- Data Flow Diagram
- Source Code
- Output (Screen shots)
- shortcoming (limitations)
- Bibliography

Important Note:

1. Index to be placed after Acknowledgment in the report. Acknowledgement is not to be mentioned in the index.
2. CD containing executable project Source Code and pertaining files (.cpp, .exe, .txt, .bin etc.,) to be attached.
3. Project CD should be properly LABELED (or write with permanent marker) with
   1. Class : XII
   2. Section : A
   3. Year : 2014-15
   4. Name:
   5. Class Roll No. :
   6. BOARD ROLL No. (To be mentioned later)
   7. Project TITLE :
   8. Main Program name : (.CPP File name)
4. Decision of topic and team: 18/8/2014
5. Code Evaluation and suggestions for betterment : 08/10/2014
6. Project Completion and Submission : 19/11/2014
7. **Projects will not be evaluated in case of late submission.**

☺ HAPPY PROGRAMMING!