



NOTICE

THE BGES SCHOOL (ICSE)

4th AMENDMENT – School Information Book – dated 04 Oct 2024

Page 37 – To be added before ‘GEOGRAPHY’

ROBOTICS AND ARTIFICIAL INTELLIGENCE

This segment of the syllabus is practical-oriented. The aim is to develop problem-solving skills, coding abilities, and critical thinking, through hands-on experience in design, development, and testing.

EVALUATION

Proposed Guidelines for Marking

The teacher should use the criteria below to judge the internal work done. Basically, four criteria are being suggested: class design, coding and documentation, variable description and execution or output. The actual grading will be done by the teacher based on his/her judgment. One possible way: divide the outcome for each criterion into one of 4 groups: excellent, good, fair/acceptable, poor/unacceptable, then use numeric values for each grade and add to get the total.

Class design:

Has a suitable class (or classes) been used?

Are all attributes with the right kinds of types present? Is encapsulation properly done?

Is the interface properly designed?

Is the logic or pseudocode and/or algorithm is correct?

Coding and Documentation:

Is the coding done properly? (choice of names, no unconditional jumps, proper organization of conditions, proper choice of loops, error handling code layout). Is the documentation complete and readable? (class documentation, variable documentation, method documentation, constraints, known bugs – if any).

Variable Description

Format for variable description:

Name of the variable	Data Type	Purpose/Description

Execution or Output:

Does the program run on all sample input correctly?

The teacher-in-charge should maintain a record of all the assignments done as a part of practical work throughout the year and give it due credit at the time of cumulative evaluation at the end of the year.

Class IX

Students are expected to do a minimum of 15 assignments during the year to reinforce concepts studied in class. The details are as follows:

Details of Assignments to be done during the year

Broad Area	Number of Assignments
Robotics	3
Artificial Intelligence	2
Python (Programming)	10
TOTAL	15

For Class IX evaluation of practical work (Assignments) will be done as follows:

Subject Teacher (Internal Examiner)	100 Marks
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Criteria (Total 100 marks)	Class design (20 Marks)	Variable description (20 marks)	Coding and Documentation (20 marks)	Execution OR Output (40 marks)
Excellent	20	20	20	40
Good	16	16	16	32
Fair	12	12	12	24
Poor	8	8	8	16

Class X

Students are expected to do a minimum of 20 assignments during the year to reinforce concepts studied in class. The details are as follows:

Details of Assignments to be done during the year

Broad Area	Number of Assignments
Robotics	3
Artificial Intelligence	2
Python (Programming)	15
TOTAL	20

For Class X evaluation of practical work (Assignments) will be done as follows:

Subject Teacher (Internal Examiner)	50 Marks
External Examiner	50 Marks

Criteria (Total 50 marks)	Class design (10 Marks)	Variable description (10 marks)	Coding and Documentation (10 marks)	Execution OR Output (20 marks)
Excellent	10	10	10	20
Good	8	8	8	16
Fair	6	6	6	12
Poor	4	4	4	8

An External Examiner shall be nominated by the Head of the School and may be a teacher from the faculty, but not teaching the subject in the relevant section/class. For example, A teacher of Computer Science of class XII may be deputed to be the External Examiner for class X.



Brij Bhushan Singh
Principal

04 Oct 2024