



IHSB STEM FEST 2026

Concern of INTERNATIONAL HOPE SCHOOL BANGLADESH



Dear Sir/Ma'am,

Warm greetings from the IHSB STEM Fest Organizing Team at International Hope School Bangladesh (IHSB)!

In the following document you will find the detailed information about our upcoming Event, the "**Hopians Programming Olympiad.**"



Event Details:

Event Date: 23rd January 2026 (Friday) (Competition Day)
24th January 2026 (Saturday) (Award Ceremony)

Registration Fee: Individual Competition - **BDT 500 ₳**

Registration Deadline: 10th January 2026

Category Details:

The Event has been divided into THREE Categories

- **Middle - School Category** (Grade: 06 - 08)
- **Secondary Category** (Grade: 09 - 10)
- **Higher Secondary Category** (Grade: 11 - 12)

Competition Details:

- The **OLYMPIAD** Will Consist of **ONE ROUND**.
- The Use of **CALCULATOR** is **STRICTLY PROHIBITED**.
- The Duration will be 1 Hour 30 Minutes.
- A Traditional Programming Contest where Participants will be given Tasks as Word Problems and are expected to write the necessary Code on the HackerRank Platform.
- Negative Markings **WON'T BE APPLIED** in Case of **INCORRECT ANSWERS**.
- Please Note that all the **OLYMPIADS QUESTION** will be **PRESENTED** in **ENGLISH!**
- Students will bring their own Laptop and Charger, also must have their own HackerRank Account!
- **Top 05 Students from each Category will be AWARDED!**
(May Vary Depending on Number of Participants)

*** Exclusive Invitation to the Award Ceremony will be extended solely to the TOP ACHIEVERS in recognition of their outstanding Performance. ***



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For any inquiries or queries related to the "**Hopians Programming Olympiad**," we encourage you to reach out to the designated contact points listed below:

Hopians Programming Olympiad

Event Affairs

Contact Details:

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Our team is committed to assisting you and providing any necessary information or clarification. Your engagement and enthusiasm are integral to the success of the event, and we welcome the opportunity to address any questions you may have.

Thank you for your cooperation, and we eagerly anticipate your active participation in the **Hopians Programming Olympiad**.

Sincerely,

IHSB STEM Fest Organizing Team

Uttara Main Campus

INTERNATIONAL HOPE SCHOOL BANGLADESH



Middle-School Category Syllabus (Grade: 6 – 8)

1. Programming Language

- Python

2. Basic Programming Concepts

- Input & Output
- Data Types & Variables
- Operators & Expression
- Conditional Statements (if, elif, else)
- Different Types of Loops (for, while)
- Mathematical Concepts
- Bit Manipulation
- Problem Solving & Logical Reasoning

3. Algorithmic Thinking

- Problem Decomposition
- Logic Tracing
- Dry Runs & Debugging

4. Data Structures

- 1D Array



Secondary Category Syllabus (Grade: 9 – 10)

1. Programming Language

- Python

2. Basic Programming Concepts

- Input & Output
- Data Types & Variables
- Operators & Expressions
- Conditional Statements (if, elif, else)
- Different Types of Loops (for, while)
- Functions & Parameter Passing
- String Manipulation
- Arrays & Basic Operations
- Searching (Linear)
- Sorting (Bubble Sorting)
- Mathematical Concepts
- Bit Manipulation
- Problem Solving & Logical Reasoning

3. Algorithmic Thinking

- Problem Decomposition
- Logic Tracing
- Dry Runs & Debugging
- Use of Built-in Functions & Algorithm

4. Data Structures

- 1D & 2D Arrays



Higher - Secondary Category Syllabus (Grade: 11 - 12)

1. Programming Language

- Python

2. Basic Programming Concepts

- Input & Output
- Data Types & Variables
- Operators & Expressions
- Conditional Statements (if, elif, else)
- Different Types of Loops (for, while)
- Functions & Parameter Passing
- String Manipulation
- Mathematical Concepts
- Bit Manipulation
- Problem Solving & Logical Reasoning
- Recursion
- Searching (Linear & Bubble Sorting)
- Sorting

3. Algorithmic Thinking

- Problem Decomposition
- Logic Tracing
- Dry Runs & Debugging
- Time Complexity (Basic Understanding of $O(n)$, $O(n^2)$)
- Use of Built-in Functions & Algorithms

4. Data Structures

- Arrays/Lists
- Stacks & Queues (Using List or Collections)
- Binary Tree
- Linked Lists (Concept & Basic Implementation)
- 2D Arrays & Matrices
- Recursion