

STEM Projects: Pool of Ideas

(Divided into SDG sub-categories)

The participating teams need to select one topic from the list below:

Goal 1: No Poverty

Goal 2: Zero Hunger

Goal 3: Good Health and Well-being

Goal 4: Quality Education

Goal 6: Clean water and sanitation

Goal 7: Affordable and Clean Energy

Goal 8: Economic Growth

Goal 9 (& 12): Industry, Innovation and Infrastructure

Goal 11: Sustainable Cities and Communities

Goal 13: Climate Action

Prizes

1. 30 teams will be selected to participate in the STEM competition. The **best three (3) projects** will be selected and these teams will be invited to the bdSTEM Fest 2020 Awarding Ceremony where they will get an opportunity to demonstrate their projects. Prizes will be given out to these top three (3) teams at this awarding ceremony.

2. The top three prizes are –

a. **Champion team: 3.00 lakh BDT**

b. **1st Runner-up: 2.00 Lakh BDT**

c. **2nd Runner-up: 1.00 Thousand BDT**

3. All the selected participants who will finalize and submit their complete projects within the deadline will get a **Certificate of Participation**.

4. The selected 30 teams will each receive a seed money of 25,000.00 (Twenty five thousand) BDT as a support to materialize their concept and to cover their travel expenses to present their project in front of

Terms and Conditions

1. Each team is required to design/develop a project from the supplied Pool of Ideas with an objective of meeting the specific SDG 2030 goal and demonstrate the maximum potential of improving the local communities.

2. The content of the project must be original and not copied or rephrased from any other source.

3. The content of the project must be authentic and should not violate the rights of any third party.

4. *Any member of the organizing committee or member of the Jury board of National STEM Competition 2020 will not be eligible to submit an entry in order to avoid a conflict of interest.*

5. In the event of any noncompliance or violation of the Terms and Conditions laid down for the competition by any participating team, bdSTEM reserves the full right to disqualify a winner/entrant at any time.

6. *The decision of the Jury Board for the National STEM competition 2020, at all stages of the competition, shall be final.*

7. For the issues that might not have been mentioned above, the decision of the organizing committee of National STEM Competition 2020 should be considered final.

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bdSTEM Fest 2020

National STEM Competition 2020

Organized by

Bangladesh STEM Society

Aims

Provide the youth of Bangladesh an opportunity to be aware of and attempt to solve some of the most important problems for local community with a focus to meet SDG 2030.

Employ the knowledge and power of STEM for building a better community and society. Popularize STEM education across the country for the sustainable development and prosperous future of Bangladesh.

Eligibility Criteria

1. Any active/current student of Bangladeshi nationality studying at the undergraduate level of a public/private university in Bangladesh can participate.

2. Any entrant should be a team of students comprising of 3-5 members, preferably including at least one (01) female member. The teams must have a mentor who should be a faculty member of the same institution. The team must also nominate a Student Team Leader' with whom all the official communications will be carried out.

3. All teams must follow the *Terms and Conditions* of the competition.

Registration Process/How to Enter

1. The team needs to fill in the **'Registration Form'** properly by providing all the required information for registration (form can be downloaded from (www.bdstem.org)). The registration form needs to be signed by the faculty member who is mentoring the team. The hard copy of this signed form should be sent to the Assistant Secretary of bdSTEM fest 2020 (Head, Department of Chemistry, Bangladesh University of Engineering and Technology (BUET), Dhaka-1000, Bangladesh) or the scanned copy of the signed registration form should be sent to following email address (ashiqur78@yahoo.com).

2. Along with the filled in and signed registration form, each team will also need to submit a **"Concept paper"** on the selected project within the specified deadline. The project needs to be selected from the **"Pool of Ideas"** available on the bdSTEM website (www.bdstem.org). A detailed guideline for preparing the concept paper is also available on bdSTEM website.

3. Upon evaluation of the submitted concept papers, **top 30 teams** will be selected for the next phase of the competition. The teams will be notified of the jury decision.

4. The selected teams will need to develop their ideas further and will need to make a formal presentation and demonstration on their projects in front of a Jury Board.

Important Deadlines

- ❖ **21 February 2020: Opening of the online registration system of NATIONAL STEM COMPETITION 2020.**
- ❖ **17 March 2020: Official Launch of the NATIONAL STEM COMPETITION 2020.**
- ❖ **30 April 2020: Deadline for the submission of completed registration form and Concept Paper.**
- ❖ **31 May 2020: Short-listing and declaration of the top 30 selected teams.**
- ❖ **15 July 2020: Submission of an Interim Progress Report by the selected teams.**
- ❖ **31 August 2020: Deadline for submitting the final projects.**
- ❖ **30 September 2020: Presentation and demonstration of projects in front of the Jury board.**

25 November 2020 (Final Award Ceremony):
Award ceremony for the top 30 teams.

Concept Paper Guideline

Project Title:

1. Scope of the project: (Max 100 words)
2. Technical details of the project: (Min 300 words, Max 1000 words)
3. What output from the project can be considered for the assessment of its success? (Max 300 words)
4. How does the project contribute in the development of sustainable technology? (Max 300 words)
5. Describe what makes the project innovative. (Max 300 words)
6. How Bangladesh will be benefited from this project? (Max 300 words)
7. Motivation to participate in the competition: (Max 300 words)

Registration Form:

Registration form can be downloaded from the following link.
www.bdstem.org

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