National STEM Competition 2020
Competition Design and Rules

Aims and Objectives:

1. Popularize STEM education across the country for the sustainable development and prosperous future of Bangladesh.
2. 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 major focus on meeting SDG 2030.
3. Employ the knowledge and power of STEM for building a better community and society.

Eligibility Criteria:

1. Any active/current student of Bangladeshi nationality studying at the undergraduate/M.S./M. Phil. level of any 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 (1) female member. The teams must have a mentor/supervisor/advisor 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 of bdSTEM 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 Secretary of bdSTEM (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 the following email address (*bd.stem.society@gmail.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"** provided by bdSTEM organizers and 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.

Judging Process:

1. A Jury board, composed of renowned educators and industry stakeholders, will select the winners.

2. **The decision of the jury board, at all stages of the competition, will be final.**

3. The judges will base their decision on the following criteria:
   — Relevance to the particular STEM topic and accuracy of the knowledge presented
   — Originality of the concept
   — Ability to demonstrate innovation
   — Implementability/practicality of the project
   — Presentation and reporting skills

Prizes:

1. The **best three (3) projects** will be selected and these teams will be invited to the National STEM-Fest 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: 1.0 Lakh 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 the 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.
- **15 October 2020:** Announcement of the top 3 teams.
- **November 2020:** Announcement of the top 3 teams and Awarding Ceremony

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 Sub-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 bdSTEM should be considered final.

- For any query regarding the program design and rules, please contact Dr. Md. Ashiqur Rahman, Coordinator, National STEM Fest Competition 2020 & Associate Professor, Department of Mechanical Engineering, BUET, Dhaka-1000 (ashiqur78@yahoo.com, Ph: 01712274887).