

## HackNSU Season 3

### Overview

The objective of a hackathon is to obtain solutions to problems. Therefore the project is expected to serve some purpose or solve a real-life problem using technology. The project can be a functional hardware or software created during the event with a specific focus within the scopes. There will be two rounds in this hackathon. The first one is the idea selection round. There are four scopes, you have to choose a problem within one of the scopes and propose a solution for it. If your idea gets selected, you'll be notified, and you can participate in the final round. The final round will be organized at North South University campus. There will be no restrictions on the kind of technology used.

### Prize money distribution

- TBA

### General Information

**Registration Deadline:** 13 November 11.59 PM BST

**Eligible Candidates:** University Students of Bangladesh (UGC Approved)

**Registration Fee:** The registration fee for the First Round is free. If a teams idea gets selected for the Final Round, they'll have to pay the fees as follows:

For 2 members team = 1400 BDT

For 3 members team = 1800 BDT

For 4 members team = 2200 BDT

For 5 members team = 2500 BDT

**Team Formation:** 2 to 5 members

**General Rules:** [click here](#).

**Judging Criteria:** [click here](#)

[First Round Submission Template](#)

### Scopes

1. Remote Health Care
2. Global Environmental Welfare
3. Education in Post-COVID era

The details about each scope are given below:

#### 1. Remote Health Care:

Let's rewind to 2020. The world is facing a threat unlike it has ever faced before. Hospitals all around the globe are being flooded with patients as the COVID-19 virus has spread from the East to the West. The World Health Organization has declared it to be a public health emergency and Global Pandemic. Doctors are being left with no other choice but to close down their private chambers, and international medical visas are also being put to a halt. Can you jump in and be the hero of the hour? Can you find solutions to accessible and affordable services that aim to support the people living in rural areas as well as in the cities? Time is running out! Hurry and save the world!

#### 2. Global Environmental Welfare

Climate Change is the defining issue of our time. From shifting weather patterns that threaten food production to rising sea levels that increase the impacts of climate change are global in scope and unprecedented in scale. To adequately address this crisis, we must urgently take action and prepare for the consequences of global warming, which we are already experiencing. You are expected to find mature, efficient, and readily deployable solutions to cope with the current situation.

#### 3. Education in Post-Covid era

Covid-19's adverse effects caused a great blow to education and educational institutions. Since the start of 2020, many have adopted online teaching and learning to continue education while keeping ourselves and the people around us safe. However, this was welcoming after almost a month of study gaps. Most students, especially within the lower-income bracket and rural parts, faced difficulties continuing their education. Whether it be due to lack of access to infrastructure or lack of funds, hence the consequences have turned out to be dire as a huge number of young minds dropped out of school, including many of whom will not return again in order to support their families. You are expected to find effective solutions with which they can curb the possibilities of dropping out of education due to lack of infrastructure, or solutions that will allow students to permanently return to education with minimal funding or solutions that will ensure quality education and a learning environment accessible from all parts of the country.

### General Rules

- Each team can be formed with a minimum of 2 members and a maximum of 5 members.
- Members of a team must be university students, and all members have to be from the same institution.
- The solution can be both software and hardware-based.
- The participants need to submit the basic idea of their solution for the First Round.
- They will be given some additional instructions on the day of the Final Round, and they need to work on those additional features along with the prototype they have already submitted.
- Participants must make their project after arriving at the event during the Final Round. In this round, participants might be given some additional challenges to solve.
- Taking external help will not be allowed. For example, you can browse through Stack Overflow during the event, but you cannot ask any new questions to Stack Overflow.

- Overview or any other online media.
- After the final development, there will be a presentation session. Each group has to present their project and they will be marked/judged accordingly by the judges.

The judges and or the organizing committee preserve the right to make changes in any rules during the time of the event.

## Guidelines

### Step 1

Form a team with 2 to 5 members. Choose one scope out of the four. Find a problem related to the scope and find out how you are going to solve the problem. Download and use the [template](#) to submit your solution proposals in the google form. This is the most important part for you. This decides whether you will be able to participate in the final contest or not. Fill up the rest of the google form and submit it.

The idea proposal doc must contain:

- Selected Scope
- Problem Description (not more than 200 words)
- Brief description of your solution (not more than 500 words)
- How is your solution going to solve the problem and the significance of your solution (impact) (not more than 250 words)
- Full description of your solution. Which may include the following:
  - Features of your solution
  - System Architecture
  - Tools and Technologies you are going to use
  - Implemented system description.
  - Feel free to add any section or subsection here as per your need.
  - Discussion and Conclusion
- Presentation slides(OPTIONAL)

### Step 2

If your idea gets selected, you will be notified to participate in the final round. The selected teams must confirm their participation for the final round by paying the registration fees and filling up the confirmation form which will be sent via email. In this round, participants will be given 8 hours to build a prototype of their proposed solution at the venue. We will give you some additional challenges to solve along with the main prototype.

The final round will take place at North South University, Bashundhara RA, Dhaka campus. The prototype must be built on the campus. Internet connection will be provided.

Participants must follow the [general rules](#) during the event. The final prototype will be judged based on some criteria. The criteria are given [below](#).

### Judging Criteria

Your projects will be judged in two sessions:

- First Round (Online: Idea Submission)
  - a. Innovation 25%
  - b. Feasibility 25%
  - c. Impact 25%
  - d. Methodology 25%
- Final Round (On-Campus: Building Solution)
  - a. Novelty (How original or unique the solution is):
    - i. Innovation: 15%
  - b. Feasibility
    - i. Technology: 25%
    - ii. Teamwork: 15%
  - c. Relevance to Proposed Solution: 20%
  - d. Sustainability:
    - i. Business Model: 5%
    - ii. Marketing Plan: 5%
  - e. Prototype
    - i. Completeness: 10%
    - ii. Completing Given Challenge: 5%