

Guidelines for Atal Tinkering Lab - School of the Month 2019

Atal Innovation Mission, housed at NITI Aayog, is Government of India’s flagship initiative to foster a spirit of innovation and entrepreneurship across India in a holistic manner. With the vision “To create One million Neoteric Innovators by 2020”, AIM is setting up thousands of Atal Tinkering Labs (ATLs) where young innovators get access to resources and know-how of 21st century technologies. AIM also envisions to create a collaborative innovation ecosystem in the country where students, teachers, mentors, industry partners and experts work together.

Atal Innovation Mission (AIM) is glad to launch the 4th version of ATL School of the Month 2019 for the students of Atal Tinkering Labs across India.

SOM 2019 is a challenge for all ATLs, where schools are required to submit innovative solutions on selected problems statements to AIM, NITI Aayog. The winning ATL teams are awarded with exciting prizes and national level opportunities to showcase their innovative solutions.

Submissions will be short listed based on their novelty, societal impact, problem identification, presentation skills and conformity to the guidelines. Entries shall be evaluated by an eminent jury.

Topic: “Advancing India with Drone Technology Innovation”

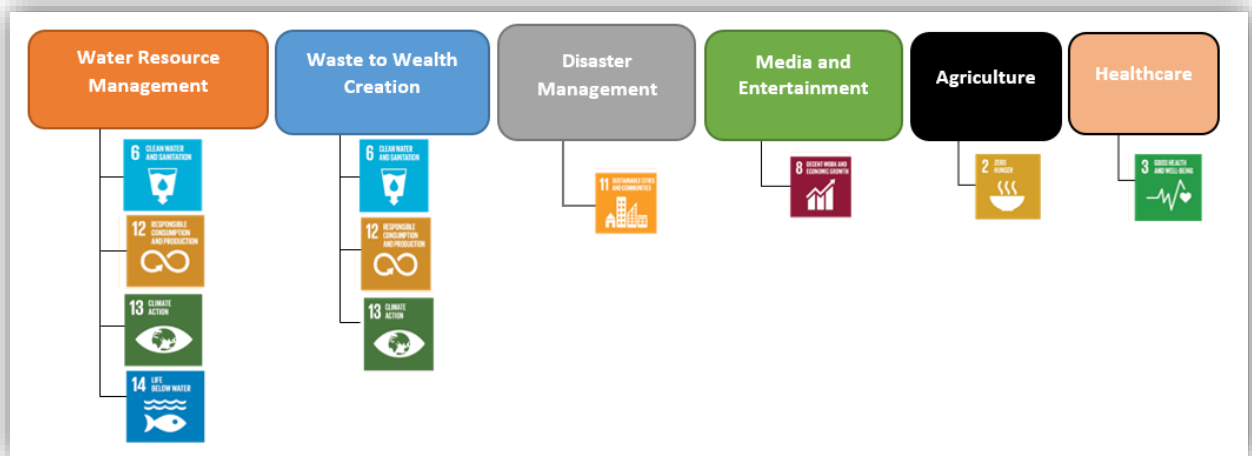
In the age of the 4th industrial revolution, drones are one of the most promising technologies integrating the concepts of physics, maths, chemistry, engineering and sensor technologies creating a tremendous range of innovative solutions that can be developed using them. The idea of flying is always a fascinating concept for all young as well as old. And technology has made it a reality. To enable students to leverage this emerging technology, it is imperative that it is unleashed and addressed innovatively by our young minds. The sheer aim is to interest students to be more imaginative and instructive.

Participants are encouraged to submit their innovations across one or more of the following themes:



The proposed thematic innovation should contribute towards achieving the Sustainable Development Goals (SDGs). The details of the SDGs are available at: <https://www.un.org/sustainabledevelopment/sustainable-development-goals/>





1. Water Resource Management

- **Clean Water and Sanitation** - Ensure availability and sustainable management of water and sanitation for all.
- **Responsible Production and Consumption** - Responsible Production and Consumption
- **Climate Action** - Climate change is a global challenge that affects everyone, everywhere.
- **Life Below Water** - Careful management of this essential global resource is a key feature of a sustainable future.

2. Waste to Wealth Creation

- **Clean Water and Sanitation** - Ensure availability and sustainable management of water and sanitation for all.
- **Responsible Production and Consumption** - Responsible Production and Consumption
- **Climate Action** - Climate change is a global challenge that affects everyone, everywhere.

3. Disaster Management

Sustainable Cities and Communities - Make cities and human settlements inclusive, safe, resilient and sustainable.

4. Media and Entertainment

Decent Work and Economic Growth - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.

5. Agriculture

Zero Hunger - End hunger, achieve food security and improved nutrition and promote sustainable agriculture.

6. Healthcare

Good Health and Well Being - Ensure healthy lives and promote well-being for all at all ages.

Application Instructions:

1. ATL Schools can submit online application at <http://bit.ly/ATLSOM2019> latest by 31st August, 2019.
2. ATL Schools are encouraged to submit multiple entries.
3. ATL School may allow children not belonging to the ATL/ community students to participate, but the team will represent the ATL School.

4. A team can be comprise of students from different classes/ standards of same school.
5. A team can consist of not more than three students and one ATL In-charge/ Mentor.
6. The team must attach “Video of the working prototype” at the time of application submission.
7. For any queries, please write to us at ATL Helpline Query Resolution available at <http://expd.pro/cgrms-atl/register/>

Design Constraints/requirements:

1. The team must share the technical drawing and physical specifications of the drone.
2. The team may choose to make either a rotary or a fixed-wing drone
3. The total weight of the drone including payload (if any) must not be more than 250 grams.
4. The drone must comply with DGCA guidelines available at:
https://www.aim.gov.in/pdf/ATL_Drone_Module.pdf
5. Flight time per charge must be at least 05 minutes.
6. The Drone must be remotely controlled by a pilot/operator.
7. Please refer to ATL Drone Module at https://www.aim.gov.in/pdf/ATL_Drone_Module.pdf for more ideas.

Video entry specifications:

1. The team is required to share/upload a 3-minute video of their drone model.
2. The video must contain at least 60 seconds of **uncut** footage of the drone flying and performing the desired task.
3. The video must also include:
 - a. Problem statement identified and proposed solution.
 - b. 360-degree view of the working prototype
 - c. Societal Impact/Vision of the solution
 - d. Explain how the Innovation is aligned on achieving the Sustainable Development Goals (SDGs).

Selection Parameters

1. Sectorial Problem/ Thematic Problem identified.
2. Proposed Technology Solution. Who will use it.
3. Societal Impact
4. Alignment of Innovation to the Sustainable Development Goals (SDGs).
5. Presentation Skills: Video quality and content.

How to Apply?

Interested applicants should build their drone, take a high-quality video and submit their entries on the following link on or before **31st August 2019**.

Link: <http://bit.ly/ATLSOM2019>

Please note that the deadline shall not be extended any further.