

AeSI Event - 03

“TAKE-OFF” under “MINDSPARK” at College of Engineering, Pune September 20, 2019

This event is an initiative taken by our AeSI Executive Members, Shri. Pravin Sonawane, Shri. LK Gite and Shri. S Muthu.

Event:

“Take-Off” is a water rocket competition held under “Mind Spark”, the Technical Festival of College of Engineering (COEP), Pune. It’s an annual competition for Engineering Students, wherein the students make a plastic aerated soft drink bottle-based rocket, fill it with water and compressed air, and launch it from a specially designed launcher. The launcher is provided by the organizing team and is constructed using plywood and PVC pipes. The event tests a couple of aspects of the rocket’s flight including range, time of flight and accuracy of the launching mechanism. The event consisted of three rounds, first one was eliminatory, second one was the qualifying round and third one was the final round.

Round 1: Range

The objective of this round was to launch a water-rocket and make it go as far as possible from the launch point i.e. the maximum horizontal distance. Rockets were launched from the firing line. The distance from firing line to the point where rocket touched the ground was measured. Teams were given two chances and the best of two readings were considered.

Round 2: Accuracy

A vertical target was erected approximately at 30 m from the firing line and the distance between bottom of vertical target and ground was maintained to 3 m. The target board consisted of 4 concentric circles, with determined marks for each circle. The teams were given two attempts to hit the target and based on the impact point of the rocket on the circle, marks were allotted.

Round 3: Time of Flight

This round was to test the effectiveness / potency of the parachute mechanism made by the teams. The rocket with parachute was launched at 90° to the horizontal and the time of flight (maximum time of the rocket in air) was measured. Two trials were provided and the best of the two was considered.

The organizing team of this event vide their e-mail dated 27th requested AeSI to sponsor the cost incurred for the fabrication of a rocket launcher and awards & certificates to the winners of the event. During the ECM held on 12 Sept 2019, it was decided that AeSI will sponsor cash awards & certificates to the students.

Accordingly, three cash awards of worth Rs.15,000 /- and certificates were sponsored by AeSI. The details of the winners and the photos of this given below:

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List of Cash Prize Winners:

Prize	Details of the Cash Award Winners	Cash Prize
Winner	Adesh Sanjay Phalphale & Pratik Hanumant Jadhav Aerospace Engineering, SY B.Tech. MIT ADT University	Rs. 7000 /-
1 st Runner-up	Ms. Tejal Kumbhar & Ms. Srushti Salunkhe Aerospace Engineering, SY B.Tech. MIT ADT University	Rs. 5000 /-
2 nd Runner-up	Abhijit Chaudhari Mechanical Engineering, SY B.Tech. Bajaj Institute of Technology, Wardha	Rs. 3000 /-

Sample Certificate issued by AeSI, Pune Branch:


**College of Engineering, Pune
and
Aeronautical Society of India, Pune Branch**










This is to Certify that Mr/Mrs _____

of _____

has secured First / Second / Third Position in the event **“ACCELERO - TAKE OFF”** organised by
College of Engineering Pune and sponsored by Aeronautical Society of India Pune Branch on
27-29 Sep, 2019.


Secretary
AeSI Pune Branch




Chairman
AeSI Pune Branch

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College of Engineering Pune
MINDSPARK



MindSpark Office, Students Gymkhana, College of Engineering, Pune, Shivajinagar, PUNE - 411005
Phone: (020)25507319 Email: info@mind-spark.org

To,
The Chairman,
Aeronautical Society of India (AeSI),
Pune.

Subject: Letter of Appreciation for sponsoring the event Take-off during
MindSpark'19

Respected Sir,

MindSpark'19 is very grateful that the **Aeronautical Society of India (AeSI)** is sponsoring the event Take-Off event which is going to take place during the three-day extravaganza on **27th, 28th & 29th of September**.

The total sponsorship for the event amounts to **fifteen thousand**, of which nine thousand will be awarded as the First Prize, seven thousand as the Second prize and four thousand as the third prize of the event.

We invite the members of **Aeronautical Society of India (AeSI)** to grace us by their presence during the event.

Thanking you in anticipation.

Yours Sincerely,

Corporate Outreach Group,
MindSpark'19

MINDSPARK'19

ANANDARAJ A
Hon. Secretary,
AeSI, Pune