



Dear Parents,  
Greetings from OPBMS!

We are glad to invite students of our school to join us in a unique scientific opportunity that will enable them to participate in a space mission through the Sally Ride EarthKAM project which is a NASA-sponsored education program that enables students to photograph and examine Earth from the unique perspective of space. Only a limited number of schools based on first come, first served basis across Punjab will be the privileged among a few across the world to control a digital camera on board the International Space Station (ISS), and photograph locations of their choice on Earth!

Students / Astronomers can use these images in areas of studies like Physics, Oceanography, Climate, Geography, Earth science etc. In the thorough workshop, conducted as part of the program, students will learn how to plan a target of interest, based on orbits of the ISS. Participants study geographical features, environmental problems, weather and climatic sciences, meteorological changes, and other studies such as consequences of natural phenomena and disasters like - deforestation, glacier recession and coastline changes. In the process they will gain exposure to tools such as Google Earth, and learn about orbital mechanics and mapping. They will be fascinated to receive photos specially clicked by ISS for them! Also there will be a basic introduction to engineering facts related to ISS.

We are pleased to bring this opportunity where students can participate in this exciting workshop. The details are as follows:

Number of Students	Activities to be Conducted	Charges Per Student
100+	1. A Highly Educative & interactive Presentation about ISS. With a number of <b>Exciting</b> Add-ons (~1 Hr). <b>(Level 1)</b> 2. <b>Add-Ons:</b> a. Watching Live Streaming of Earth from Space Station b. Learning to Watch ISS with naked eyes & Brief Exposure to Satellite Tracking Apps. 3. Sending commands to ISS to click stunning and live pictures of Earth (~1 Hr) 4. Display of ISS Model.	Free for Astronomy Club Students  <b>Rs. 500/- (For Non-Astronomy Club Students)</b>

### **TERMS & CONDITIONS:**

This is a wonderful opportunity for the students to know about Satellites, Orbital Mechanics, Geography, Latitude, Longitudes, Earth Science, Life of Astronauts in SPACE and a lot more. The students will experience adrenaline inducing science based learning through creativity.

**Interested students can submit their consent on the school mobile app latest by Thursday, July 11, 2024 positively.**

We look forward to your support and encouragement towards this scientific exploration for your students.

Warm regards  
Sd/-  
Sangeeta Sharma  
Principal



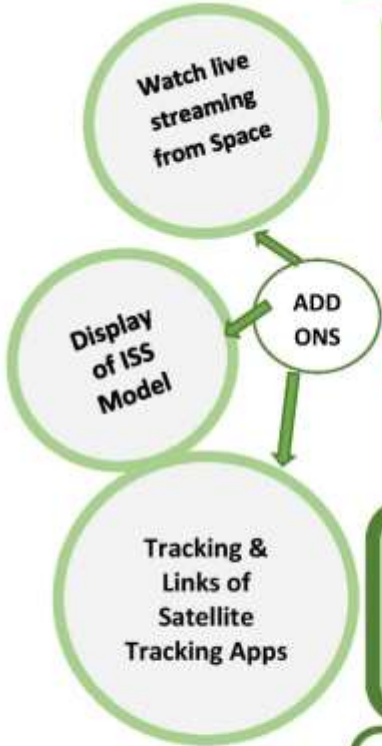
# SALLYRIDE EARTHKAM

## Photograph Earth and its parts using the Camera mounted on a Satellite

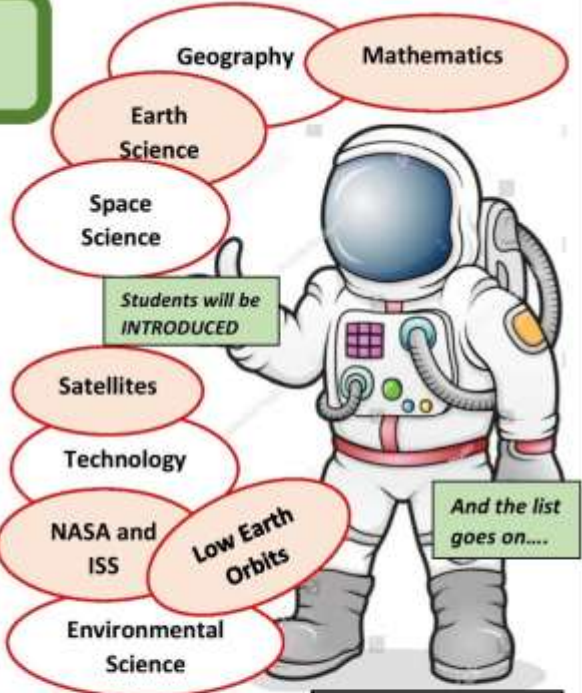
Brahmaand Edutainment in Association with Om Parkash Bansal Modern School, Mandi Gobindgarh is organizing a NASA Educational Outreach Event where STUDENTS WILL BE GIVEN ACCESS TO SEND COMMAND TO THE CAMERA MOUNTED ON LARGEST ARTIFICIAL SATELLITE IN SPACE and request beautiful pictures of different places on Earth.

### ONCE IN A LIFETIME OPPORTUNITY

FOR Class 6<sup>th</sup> and Onwards



Participation Fee:  
Free for Astronomy Club Students  
Rs. 500 for Non – Astronomy Club Students



**ACTIVITIES TO BE CONDUCTED:**

Presentation about ISS. (~1hr)

Sending commands to ISS to click stunning & live pictures of Earth. (~1hr)

WORKSHOP will be conducted in school premises on 15<sup>th</sup> July 2024  
Total duration of Workshop: 2 Hours

**Terms and Conditions:**

- It is a NASA Event, so dates may change anytime.
- Students/Parents will be informed in case of any change through Institute.

**Requirement from Participants:**  
Notepad + Pen/Pencil  
Laptops / Computers With Good internet Connection

Students will be given the  
**HANDOUTS & Participation Certificate**