



Government of India
National Remote Sensing Centre
Indian Space Research Organisation
ISO 9001:2015

PRESENTS

39th Fortnightly Workshop on

HOW SATELLITES ARE CHANGING INDIA

Speaker – Shri. G Srinivasarao

(Group Director Training,
Education & Outreach Group ISRO-NRSC)

For Students from Classes 5th to 12th

(Teachers can also Participate)



**November 23rd,
04:00PM IST**

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NIS&PR National Institute of Science Communication and Policy Research
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KNOWLEDGE AND AWARENESS MAPPING PLATFORM

KNOWLEDGE SESSION 2023: EPISODE 39

ORGANIZED BY: KNOWLEDGE AND AWARENESS MAPPING PLATFORM

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National Institute of Science Communication and Policy Research
NIS&PR
सीएसआईआर-निस्पर



Topic: How Satellites are Changing India

Date: November 23, 2023

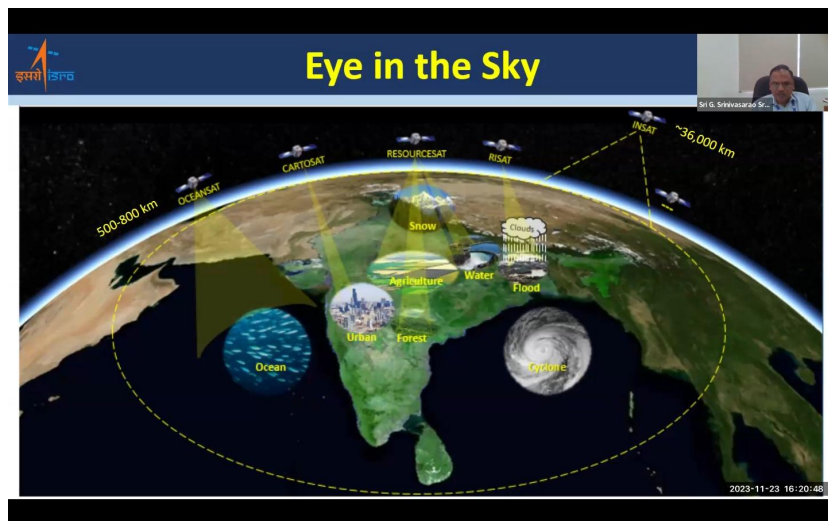
Organized for: Students from classes 5-12

Category: Science, Technology and Innovations

Speakers/Presenters: Shri. G. Srinivasarao (Group Director Training, Education & Outreach Group)

No. of Participants: 500+ students from different schools across India

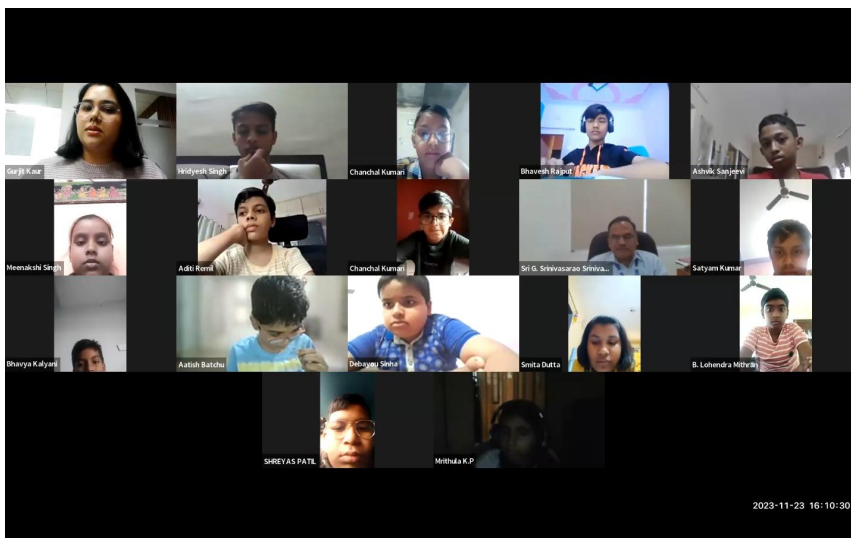
Overview:



On November 23rd, 2023, the Knowledge and Awareness Mapping Platform (KAMP) in collaboration with the Indian Space Research Organisation's National Remote Sensing Centre (ISRO-NRSC) hosted its 39th knowledge-sharing session, aimed exclusively at students from the 5th to 12th grades. The session sought to unravel the intricacies of "How Satellites are Changing India. Over 500 eager students hailing from

diverse corners of the country participated in this engaging session, providing a platform for young minds to delve into the realm of satellite technology.

Ms. Gurjit Kaur (Assistant Manager, KAMP), set the tone for the day as she welcomed Shri. G Srinivasarao. His expertise, as the Group Director in Training, Education, and Outreach at ISRO-NRSC, Hyderabad, brought a wealth of knowledge to the students. The workshop aimed not just to inform but to inspire, shedding light on the transformative role satellites play in shaping the landscape of India.



Shri. G. Srinivasarao delivered a captivating presentation, emphasizing the pivotal role satellites play in our lives. He elucidated how these technological marvels act as the "eyes in the sky," contributing significantly to various sectors. From agriculture and water resources to forestry,

ecology, urban infrastructure, rural development, natural resource monitoring, geosciences, and disaster management support—satellites emerge as indispensable tools that touch every aspect of our daily lives.

Taking to the Orbit

Rocket	Height	Lift-off weight	Propulsion	Payload mass	Orbit
SLV-3	: 22.7m	: 17 t	: All Solid	: 40 kg	: Low Earth Orbit
ASLV	: 23.5m	: 39 t	: All Solid	: 150 kg	: Low Earth Orbit
PSLV-XL	: 44m	: 320 t	: Solid & Liquid	: 1860 kg	: 475 km Sun Synchronous Polar Orbit (1300 kg in Geosynchronous Transfer Orbit)
GSLV Mk II	: 49m	: 414 t	: Solid, Liquid & Cryogenic	: 2200 kg	: Geosynchronous Transfer Orbit
GSLV Mk III	: 43.43 m	: 640 t	: Solid, Liquid & Cryogenic	: 4000 kg	: Geosynchronous Transfer Orbit

SSVL **LVM-3**

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The session provided a unique opportunity for students to grasp the profound impact of satellite technology on society. Shri. G. Srinivasarao showcased how satellites, through their vantage point in space, contribute not only to the growth of the nation but also to the well-being of its citizens.

Beyond the enriching session, Ms. Gurjit Kaur took the opportunity to inform both students and teachers about upcoming scientific excursions and teacher training programs organized by KAMP. These initiatives, scheduled to take place at various CSIR Labs and ISRO Centers throughout the year, promise further avenues for hands-on learning and professional development.

In conclusion, the KAMP-ISRO-NRSC knowledge-sharing session was more than a discourse on satellites—it was a journey into the future, where young minds were equipped with the knowledge to understand, appreciate, and contribute to the technological advancements that are shaping the destiny of India.

The purpose of KAMP's fortnightly workshops is to help students develop creativity, meaningful learning, and critical reading and thinking skills that bring out their inherent abilities. The vision of KAMP is to identify and capture Scientific and Technological temperament in students to make India a Global Leader in the fields of Science, technology, and the humanities.

Human Space Flight Programme
Gaganyaan Programme

To develop a space vehicle to carry crew of two members to LEO and return safely to a predetermined destination on earth.

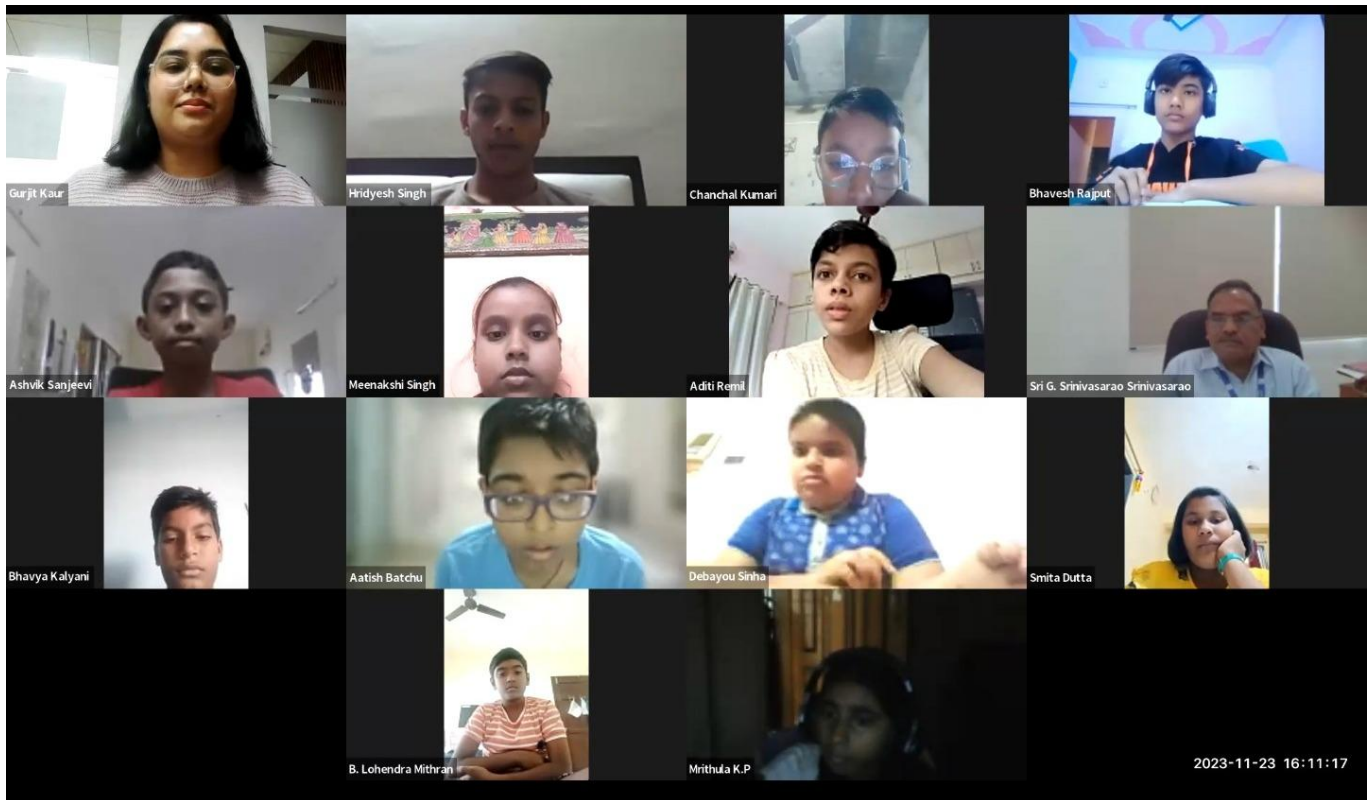
- Mission duration up to 7 days
- Emergency mission abort and crew rescue provision
- Crew module designed for re-entry and service module for mission management.

Orbital vehicle

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Such workshops, conducted by KAMP, deal with various topics that fall under the categories of Science, technology, and innovation, Scientific and Life Skills, Career and Professional Development, Academic development, and training trainers and teachers.

KAMP believes that with exposure to such topics from experts within such specific fields, students will become aware of real-life situations and challenges, develop a helping, problem-solving nature wherever possible, understand their core values and personal interests, evaluate their skills within the given area, and achieve their best in their most desirable way.



Organized By:
Knowledge and Awareness Mapping Platform
(KAMP Operations and Coordination Office)

Moderated By:
Ms. Gurjit Kaur
(Assistant Manager, KAMP)

Team Credits:
Ms. Arika Mathur
(Member, KPMC)

Ms. Kavita Tripathi
(System Analyst)