

Explore The Space

(NGO Promoting STEM Education & Space Exploration
awareness in Schools & Colleges across Geographies)



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**Explore The Space is an
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Registered Space Tutor**

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COURSE CONTENTS

Sl. No. Chapters

1. Solar System
2. Stars
3. Evolution of Modern Space Studies
4. Rockets
5. Satellites
6. Space Exploration today and future
7. Space Applications
8. Top Companies in Space Applications
9. International Space Law and Space Defence
10. Aerospace & Defence Industry
11. Space Economy
12. Mysteries of Space
13. Institutions for Higher Learning in Space
14. Careers in Space Technology & Industry
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Experts' Inputs for School Students



"Adherence to Quality Standards is the Key"

**Prakasha Rao P.J.V.K.S.
Outstanding Scientist &
Director Space Infrastructure
Programme ISRO (Retd.)**

While this focus on quality is relatively new to the commercial establishments, which are primarily driven by competition and globalisation, there are some disciplines of engineering/research like Defence and Aerospace Sectors, which due to their critical nature, had ingredients of quality and reliability built into their programmes, almost from inception.



**Leap Forward ! Fly High !
Materials for Space Exploration**

Dr. L.K. Sharma,
CEO, Mahanama Ceramic Development
Organisation New Delhi,
Former President, Indian Ceramic Society &
President, India Chapter - American Ceramic Society &
Former Chief Scientist, Govt. of India

Metallurgy, the science of working with metals, plays a pivotal role in the success of space missions. Whether it's for spacecraft construction, astronaut gear, or infrastructure on other celestial bodies, **metallurgy in space exploration is an indispensable field.**



"Materials play a very important role in Space Exploration"

**Dr. Jaydeep Mukherjee,
Director, NASA - FSGC, USA**

Materials play a very important role in Space Exploration. NASA's fundamental research enables rapid discovery of novel alloys, ceramics, polymers, and composites designed for advanced processing methods, including additive manufacturing. The spacecraft are subjected to extreme environmental conditions, such as those occurring in propulsion and power systems, planetary entry, planetary surface operations, and the space environment.



"Ask Questions"

**N. Sudheer Kumar,
Director, CBPO,
ISRO, Bengaluru**

The excitement and opportunities offered by Space Exploration are growing very fast. "Young minds need to develop critical thinking and scientific temper to bring about innovation to face the emerging challenges in the field of Space Technology.

"Students have to be curious and ask questions about various scientific phenomena / facts happening around them. This will kindle their scientific temper... ISRO invites young minds to pursue space as a career."



"Be Curious"

**Tim Dyer,
Executive Director,
Fralock Inc., USA &
President, MatSci
Innovations LLC, CA, USA**

To be a space enthusiast you will need:

- Curiosity
- Imagination
- A willingness to learn
- A person to share your passion about space
- Resources like star maps and some space books
- Have a knack for Math and Science
- Be willing to work hard and study
(one job is not enough...)



"Look up, at the Stars"

**S. Balagurunathan
Science Communicator
Retired Principal, Tamil Nadu**

Students should take keen interest in astronomical events as that makes the basis of all Space Exploration Activities. Astronomy inspires us with beautiful images and promises answers to the big questions.



"Space Exploration is Multi-Disciplinary"

**V. Sumitrra Devi,
Chief Administrative Officer
Explore The Space, Chennai**

Students will have to learn basic concepts of Science with interest. It is important to ask questions and our class teachers will have to encourage questions. Space Industry is driven by multiple subjects.

Glimpses of Explore The Space



Explore The Space was conferred the title
"ISRO Registered Space Tutor" at ISRO Headquarters,
Bengaluru – August 2022



D. V. Venkatagiri, CEO,
Explore The Space
addressing the audience on
"Space Industry in India"
at Aadharsh Chamber of Commerce -
February 2024

Bengaluru Space Expo - 2022 at BIEC on September 5 - 7, 2022



S. Somanath, Chairman, ISRO visited our stall and signed the visitors record, N. Sudheer Kumar, Director & K. Sathish Kumar, Asst. Director, CBPO, ISRO, Bengaluru along with D.V. Venkatagiri, CEO, Explore The Space & The Global Trade Driver explained "Global Space Business Bulletin"



Prof. V. Sumitrra Devi, CAO, Explore The Space with
School Students in Chennai - April 2022



Explore The Space Quiz Competition 2017
Winner - Sir Sivaswami Kalalaya
Sr. Secondary School, Mylapore, Chennai
V. Ramamoorthy, Scientist, ISRO (Retd)
presented the trophy to the students