

## START-2025 Theme: Future of India's space exploration

### Lecture Topics and Speakers

No.	Date and Time (hrs)	Lecture Title	Speaker
	09 <sup>th</sup> January 2025 14:30 – 15:00	<b>Inauguration</b>	
<b>Introductory Lecture (Setting the Context of START 2025)</b>			
1	09 <sup>th</sup> January 2025 15:00 – 16:00	India's Space Science Exploration: Past, Present and Future: Context of START 2025	Dr. Tirtha Pratim Das, Director, SPO, ISRO HQ
<b>Session-1: Major Milestones for Space Vision 2047</b>			
2	10 <sup>th</sup> January 2025 15:30 – 16:15	India's Human Spaceflight Programme: Beginning of a new Era	Shri. Baluragi H, Director, DHSP, ISRO HQ
3	10 <sup>th</sup> January 2025 16:30 – 17:15	India's Own Space Station: The Bharatiya Antarish Station (BAS)	Shri D. K. Singh, Director, HSFC
4	13 <sup>th</sup> January 2025 15:30 – 16:15	India's contributions to exploratory Lunar Science	Dr.Megha Bhat, PRL
<b>Session-2: Steps Towards Space Vision 2047</b>			
5	13 <sup>th</sup> January 2025 16:30 – 17:15	Microgravity and Biology of Living Systems: Challenges for Human Space exploration and new opportunities for research.	Dr.K.G. Sreejalekshmi, IIST
6	15 <sup>th</sup> January 2025 15:30 – 16:15	Scientific Opportunities for Indian Astronauts on Lunar Surface	Dr. Senthil Kumar, NGRI, Hyderabad
7	15 <sup>th</sup> January 2025 16:30 – 17:15	Towards a Better Understanding of the Sun-Earth Connection: Avenues for Next Two Decades	Prof. Gurubaran, IIG, Mumbai
8	16 <sup>th</sup> January 2025 15:30 – 16:15	Future Directions in Space-Based Astronomy and Astrophysics	Prof. Somak Raychaudhury, Ashoka University
9	16 <sup>th</sup> January 2025 16:30 – 17:15	Envisioning the future for Solar System Exploration	Prof. D. Banerjee, PRL
10	17 <sup>th</sup> January 2025 15:30 – 16:15	India's Venture to Heliophysics and Space Weather: Present Status and Future Opportunities	Dr. Sankarasubramanian K, URSC
11	17 <sup>th</sup> January 2025	Space-Based Cosmology: Thoughts for Future Exploration	Dr. Tarun Souradeep, Director, RRI

	16:30 – 17:15		
12	20 <sup>th</sup> January 2025 15:30 – 16:15	Future Directions in Astrochemistry Research	Prof Bhalamurugan Sivaraman, PRL
13	20 <sup>th</sup> January 2025 16:30 – 17:15	In Search of the Exoplanets	Prof.Abhijit Chakraborty, PRL
<b>Session-3: Space-Exploration from Different Vantage Points</b>			
14	21 <sup>st</sup> January 2025 15:30 – 16:15	Ground Observatories in India	Dr. Divya Oberoi, TIFR
15	21 <sup>st</sup> January 2025 16:30 – 17:15	Lagrange Points as Vantage Points in Space-based Exploration: Future Opportunities	Dr. Deepak Negi, VSSC
16	22 <sup>nd</sup> January 2025 15:30 – 16:15	Understanding and predicting solar activity: Do sun's poles have the answer.	Prof.Bhargav Vaidya, IIT-Indore
<b>Session-4: Enabling Technologies for Future Space Exploration</b>			
17	22 <sup>nd</sup> January 2025 16:30 – 17:15	Launch Vehicles for Future Space Exploration	Shri M.S. Anurup, Director, STPO, ISRO HQ
18	23 <sup>rd</sup> January 2025 15:30 – 16:15	Advanced Propulsion System for Future Space Exploration	Shri Hutton, AD, LPSC
19	23 <sup>rd</sup> January 2025 16:30 – 17:15	Docking in Space: Technologies, Challenges and Possibilities	Shri. Surendran.N, PD, SPADEX, URSC
20	24 <sup>th</sup> January 2025 15:30 – 16:15	Communication and Navigation for Futuristic Interplanetary Missions	Shri Sumitesh Sarkar, AD, SAC
21	24 <sup>th</sup> January 2025 16:30 – 17:15	Scientific Payloads and Techniques for Solar System Exploration	Dr.Mehul R.Pandya, SAC
22	27 <sup>th</sup> January 2025 15:30 – 16:15	Space Robotics in Future Science Exploration	Prof.Rohan Paul, IIT- Delhi
23	27 <sup>th</sup> January 2025 16:30 – 17:15	Building structures on the Moon: Challenges and Possibilities	Prof. Alope Kumar, IISc
24	28 <sup>th</sup> January 2025 15:30 – 16:15	Enabling and Disruptive Technologies for Future Space Science Exploration	Shri.N. Raghu, DTDI, ISRO HQ
25	28 <sup>th</sup> January 2025 16:30 – 17:15	Challenges in the Archival and Analysis of Planetary Samples	Dr. D.K. Panda, PRL
26	29 <sup>th</sup> January 2025 16:30 – 17:15	Planetary Protection in Scientific Exploration: Will new Rules be Necessary for Future?	Dr. K. Praveen Kumar, SPO, ISRO HQ