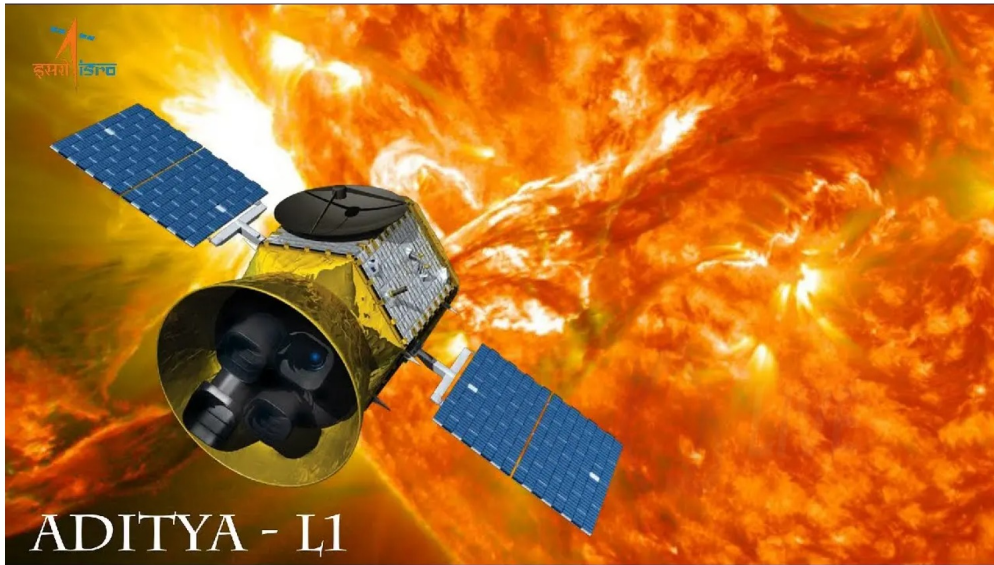


An Astronomical Snapshot and Japan's New Satellite - The Latest in Space Exploration

The world of space exploration never ceases to amaze us with its continuous stream of groundbreaking achievements and innovations. In this blog, we will take you on a journey to explore three captivating developments in the realm of space exploration: a remarkable selfie from space, India's exciting companion for Chandrayaan-3, and Japan's newest satellite that promises to expand our understanding of our planet and beyond. ISRO's sun mission is also active and sends new updates with time. Aditya-L1 is the name of ISRO's sun mission.



[Source: Hindustan Times]

The Cosmic Selfie and Persevering Rover

In a momentous event that captured the imagination of people around the globe, NASA's Perseverance rover took an extraordinary selfie on the surface of Mars. This selfie not only showcases the rover itself but also provides a breathtaking glimpse of the Martian landscape.

The Perseverance, also known as Percy, has been on Mars since February 18, 2021, and has been diligently exploring the Jezero Crater, a site believed to be an ancient lakebed. The selfie, compiled from 62 individual images taken by the rover's WATSON camera, showcases Percy's resilience and the incredible terrain it navigates daily.

A Window to Another World

The selfie is a testament to human ingenuity and the power of technological advancements in space exploration. It allows us to vicariously experience the Martian landscape, igniting our curiosity about the mysteries of the Red Planet.

An Astronomical Snapshot and Japan's New Satellite - The Latest in Space Exploration



An Astronomical Snapshot and Japan's New Satellite - The Latest in Space Exploration

[Source: Hindustan Times]

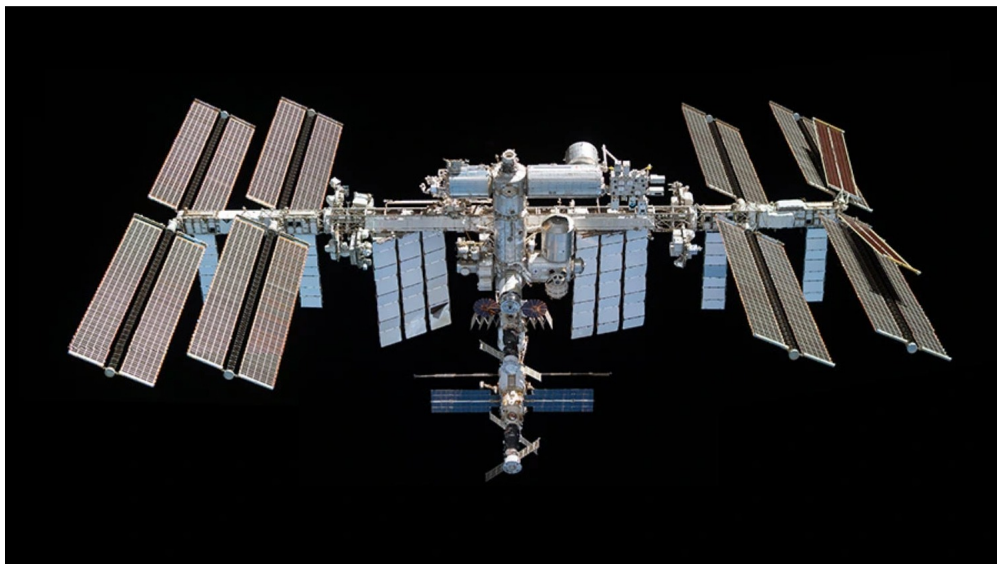
A Companion for Chandrayaan: India's Lunar Quest Continues

India's space agency, ISRO, continues its lunar exploration journey with Chandrayaan-3, the successor to the successful Chandrayaan-2 mission. Chandrayaan-3 is set to take India's lunar ambitions to new heights. In a notable development, ISRO has announced its collaboration with the Russian space agency, Roscosmos, to build and launch Chandrayaan-3. This partnership underscores the spirit of international collaboration in space exploration.

Revisiting the Moon: Chandrayaan-3 aims to build upon the achievements of its predecessor, with a focus on further understanding the Moon's geology, surface composition, and lunar water. It will also pave the way for potential future missions, including crewed lunar exploration.

Japan's New Satellite: A Window to Earth and Beyond

The JAXA Satellite- Japan Aerospace Exploration Agency (JAXA) has unveiled its latest satellite, "TSUBAME" (short for "Tropical Sounding of the Upper Troposphere by Meteorological Aircraft with a new generation engine"). This satellite promises to revolutionize our understanding of Earth's climate and weather patterns. Space agencies like JAXA often announce and launch new missions to explore different aspects of space, including planetary exploration, satellite technology, and scientific research.



[Source: JAXA]

An Astronomical Snapshot and Japan's New Satellite - The Latest in Space Exploration

Advancing Earth Observation- TSUBAME is equipped with state-of-the-art observation instruments that will provide highly detailed data on the Earth's atmosphere, helping scientists better understand and predict climate-related phenomena such as typhoons and hurricanes.

Expanding Scientific Frontiers- Beyond Earth observation, TSUBAME will also contribute to astronomical research by observing celestial phenomena such as gamma-ray bursts and cosmic rays. This dual-purpose satellite exemplifies the synergy between Earth and space sciences.

VELC (Visible Emission Line Coronagraph)

VELC is one of the key instruments onboard the Aditya-L1 spacecraft. It is designed to capture images of the solar corona in visible light and study the dynamics of the corona during solar events like solar flares and coronal mass ejections. By observing the Sun in visible wavelengths, VELC can help scientists gain insights into the structure and evolution of the corona.

Multilateral Coordination Board (MCB) Meeting on Operations and Utilisation of the ISS Beyond 2025

The NASA Kennedy Space Centre in the United States hosted the International Space Station Multilateral Coordination Board (ISS MCB Meeting) on August 22, 2023, and JAXA attended as a partner in the ISS Partnership. Important issues pertaining to the use and operations of the ISS are routinely reviewed at the ISS MCB Meeting, which acts as the top-level international coordination meeting for the ISS programme. Following commitments from Canada, Europe, Russia, Japan, and the United States to take part in extending ISS operations until 2025, this summit was a first of its sort.

Representatives from each partner discussed issues pertaining to the ISS's operation as an orbital laboratory, including crucial research and technology demonstrations for future space exploration. Furthermore, they discussed the role and utilization of the ISS for the benefit of humanity, as well as its role in commercial economic activities in Low Earth Orbit in the 2030s and the expansion of human activities to the Moon and beyond.



[Source: JAXA]

Multilateral Coordination Board (MCB)

The Multilateral Coordination Board (MCB) meeting for the International Space Station (ISS) was an important forum where the space agencies participating in the ISS program discussed the future operations and utilization of the ISS beyond the year 2025. The ISS is a collaborative project involving multiple space agencies, including NASA (United States), Roscosmos (Russia), ESA (European Space Agency), JAXA (Japan Aerospace Exploration Agency), and CSA (Canadian Space Agency).

Key Points about MCB

Purpose of the MCB Meeting: The MCB meeting aimed to provide a platform for the partner agencies to coordinate and discuss the long-term plans for the ISS. This includes discussions about the continued operation of the space station, utilization of its facilities for scientific research, and international cooperation in space exploration.

Transition Beyond 2025: The ISS has been continuously inhabited and operated since the early 2000s. The MCB meeting addressed the transition beyond the original agreement to operate the ISS, which was initially planned until 2020 and later extended to 2024. Partners discussed whether to continue operating the ISS beyond 2025 and how to do so effectively.

Commercialization and Private Sector Involvement: The meeting explored opportunities for increased private sector involvement in ISS activities, including commercial research, manufacturing, and tourism. As space becomes more accessible, there is growing interest in leveraging the ISS for commercial purposes.

Scientific Research and Experiments: One of the primary purposes of the ISS is to conduct scientific research in microgravity. The MCB meeting would have discussed plans for scientific experiments and research programs to be conducted on the ISS in the coming years.

International Collaboration: The ISS is a testament to international collaboration in space exploration. The MCB meeting emphasized the importance of maintaining strong partnerships among space agencies and how international cooperation benefits both scientific research and space exploration goals.

Future Exploration Goals: Discussions likely touched on how the ISS program aligns with broader exploration goals, including potential missions to the Moon and Mars. The ISS serves as a valuable testbed for technologies and systems that may be used in future deep-space missions. The future of the ISS and international space cooperation remains a dynamic and evolving topic in the field of space exploration.



5 LAKH+ STUDENTS
Already enrolled with our selection focused courses.

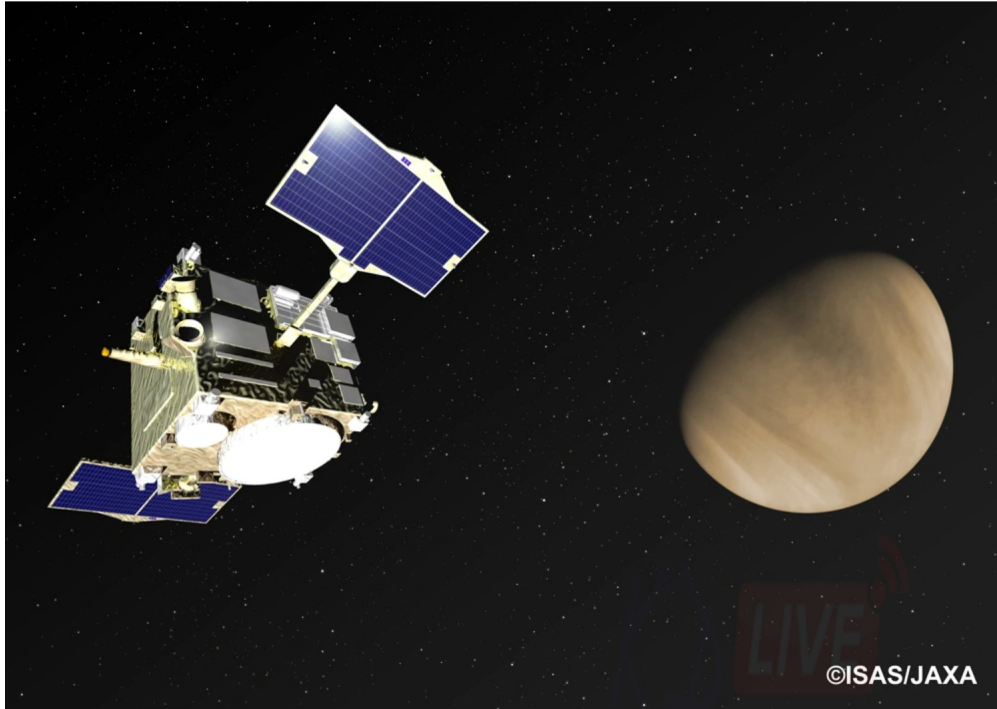


30+ EXPERT INSTRUCTORS
Our instructors are the best in the industry



10000+ HOURS OF VIDEOS
All videos are well-explained for you to get every bit out of the videos

An Astronomical Snapshot and Japan's New Satellite - The Latest in Space Exploration



[Source: JAXA]

The realms of space exploration and satellite technology continue to astonish us with their boundless potential. Whether it's capturing a selfie from the surface of Mars, embarking on a lunar journey with Chandrayaan-3, or expanding our knowledge of Earth's climate with Japan's Tsubame satellite, these developments remind us of the indomitable human spirit of exploration and discovery. As we look forward to the exciting adventures that lie ahead, we are reminded that the universe is a vast playground awaiting our exploration and understanding.

Follow us on



Address : 1997, Mukherjee Nagar, 110009

Email : online@kdcampus.org

Call : +91 95551 08888

Download the App

