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Maharaja Surajmal Institute of Technology, New Delhi

Department of ECE

Report on Visit to GLEX 2025 at YashoBhoomi, New Delhi

A visit of 15 students of ECE 2nd year was organized to Space conference GLEX 2025 at YashoBhoomi, New Delhi by Dept of ECE on 9.5.2025.

Faculty Coordinators:

Dr. Sudesh Pahal

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Introduction

The Global Space Exploration Conference (GLEX) 2025, held from May 7–9 at YashoBhoomi (India International Convention & Expo Centre), Dwarka, New Delhi, was a landmark event jointly hosted by the International Astronautical Federation (IAF) and the Indian Space Research Organisation (ISRO). The conference served as a platform to unite global space leaders,

astronauts, engineers, students, and policymakers to share the latest insights and developments in space exploration.

Key Highlights of the Visit



Inspirational Talks by Astronauts

- Rakesh Sharma (India): India's first astronaut inspired attendees by speaking about how space exploration expands human potential and ignites the curiosity of youth.
- Angad Pratap (India): Shared key insights into India's recent space missions and vision for future manned missions.
- Christian Feichtinger (Austria): Executive Director of the IAF emphasized the importance of international cooperation in space missions.
- Hazzaa AlMansoori (UAE): The first Emirati astronaut discussed space science education and the UAE's ambitious space goals.
- Gopichand Thotakura (India): India's space tourism representative shared experiences and visions for commercial spaceflight.
- Alper Gezeravcı (Turkey): Highlighted Turkey's entry into human spaceflight and the impact on national pride and scientific advancement.
- Sirisha Bandla (USA): A key figure in space tourism, she emphasized the evolving role of private companies in democratizing access to space.
- Eytan Stibbe (Israel): Reflected on scientific experiments conducted aboard the ISS and their relevance to life on Earth.
- Michael López-Alegría (USA): A veteran astronaut with decades of experience in human spaceflight spoke about long-duration missions and international partnerships.

Exhibition of ISRO and IN-SPACe Technologies

The visit included a walkthrough of an extensive technology exhibition by ISRO and IN-SPACe, showcasing 43 indigenous innovations: Advanced sensors (temperature, pressure, imaging)

- Satellite communication tools
- Smart insulation materials and space-grade coatings
- Space vehicle components designed for reusability

These innovations not only highlight India's growing technological strength but also support the "Make in India" and "Atmanirbhar Bharat" initiatives.

Interactive Sessions and Workshops

- Human spaceflight programs and the Gaganyaan mission
- Emerging space policies and international space law
- Commercialization and startup collaboration in the space sector
- Young professionals' involvement and educational outreach



Conclusion

The visit to GLEX 2025 was a transformative experience. It gave us rare exposure to the forefront of global space research, policy, and collaboration. Listening to astronauts from around the world and observing cutting-edge technology displays deepened our understanding of the vast potential that space science holds for humanity. We thank Dr. Sudesh Pahal and Dr. Dinesh Sheoran for their coordination and support in making this enlightening visit possible.