



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Organized

“Space Outreach Talk on “Challenges of Chandrayaan – 3”

Under the aegis of

INSTITUTE’S INNOVATION COUNCIL (IIC)

EVENT TITLE: “Space Outreach Talk on “Challenges of Chandrayaan – 3”

Description of Space Outreach Talk on “Challenges of Chandrayaan – 3

In commemoration of the launch of first artificial satellite -SPUTNIK -1 on 4th Oct,1957 and the Outer Space Treaty was signed on 10th Oct 1967, every year, it is being celebrated from October 4-10 by ISTRAC to spread the awareness of space activities among the students. ISTRAC is very happy to host the series of programs on the occasion of World Space Week – 2023. In this regard Department of ECE is organized an Outreach Talk under ISTE Student chapter, Sir MVIT, for the benefit of the students.

The speaker started with the brief overview of the Chandrayaan- 3. Chandrayaan-3 is the third mission in the Chandrayaan series, following the highly successful Chandrayaan-2. Chandrayaan-2 made history by becoming the first mission to explore the lunar south polar region. Chandrayaan-3 is set to build upon the successes of its predecessor while addressing the lessons learned from Chandrayaan-2.

During the talk, Ms.Roopaa highlighted several key challenges that Chandrayaan-3 faces:

Technical Challenges: The mission's technical complexities were discussed, including the design and testing of the lander and rover. She emphasized the importance of addressing the anomalies encountered during the Chandrayaan-2 mission to ensure the success of Chandrayaan-3.

Cost Constraints: Chandrayaan-3 is being developed with a more cost-effective approach. The speaker elaborated on the budget constraints and how they have impacted the design and execution of the mission.

Global Competition: The global space exploration landscape was a subject of discussion. She highlighted how Chandrayaan-3 is a part of the global lunar exploration race and the significance of keeping up with international efforts.

Objectives of Space Outreach Talk on “Challenges of Chandrayaan – 3

Scientific Objectives: The talk outlined the scientific objectives of Chandrayaan-3, which include studying the lunar surface, composition, and mineral resources, as well as understanding the moon's geology and its evolution.

The speaker discussed the prospects for Chandrayaan-3, emphasizing that despite the challenges, it is an ambitious mission that will contribute to India's space achievements. He also spoke about the potential for collaboration with international space agencies and shared insights into India's broader plans for space exploration, including the Gaganyaan mission.

The audience engagement during the talk was notable, with attendees asking insightful questions related to the technical aspects of the mission, its scientific goals, and the strategic importance of lunar exploration for India. Ms.Roopa M V provided comprehensive answers, fostering a dynamic and informative discussion.

Benefits in terms of learning/skills/knowledge obtained

The space outreach talk on the "Challenges of Chandrayaan-3" provided valuable insights into the ambitious lunar mission and the intricacies of space exploration. It showcased the dedication and enthusiasm of the Indian space community, as well as their commitment to overcoming challenges and pushing the boundaries of space science and technology. The talk left attendees with a sense of anticipation and optimism for the successful completion of Chandrayaan-3 and its significant contributions to lunar exploration.

Brief about the Resource person

Ms.Roopa's work Responsibilities are Dy. General Manager, Spacecraft Operations Area, Deputy Project Director for Chandrayaan-3 Mission, Deputy Project Director for SCATSAT Satellite, Operations Director for Mars Orbiter Mission (MOM) (Mangalyaan), Operations Director for Chandrayaan-2 Lander and Rover, Operations Director for CARTOSAT-3 Satellite, and Operations Director for Oceansat-2 Satellite. She has more than 25 years of Experience in Spacecraft Operation and Health Analysis. She has received various awards like ASI (Astronautical Society of India) Space gold medal, Distinguish Alumni SJCE (JSS Science and Technology University, Mysuru), Nava-Nakshatragalu award from TV9 Kannada, International Women's Day Awards- from Delhi Commission, H R Prathibha Women of Distinctive Vocation Award and Distinctive Women Scientist award-2017 from VTU Belgam.

Poster of the Event



SRI KRISHNADEVARAYA EDUCATIONAL TRUST
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NAAC)
Krishnadevarayanagar, Off International Airport Road, Bengaluru - 562157
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



WORLD SPACE WEEK
SPACE OUTREACH TALK
ON
CHALLENGES OF CHANDRAYAAN-3
IN ASSOCIATION WITH ISRO-ISTRAC



SPEAKER
Roopa M.V.
DEPUTY PROJECT DIRECTOR
CHANDRAYAAN-3

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Principal Sir MVIT.

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Assistant Professor
Department of ECE

Dr. Poongothai C.
Assistant Professor
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**October 9, 2023**
**CS Seminar Hall**
**2:00 PM**

Summary of the Event

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Related Photographs of the Event



