



School of Studies in Physics and Astrophysics

Pt. Ravishankar Shukla University, Raipur (C.G.)

National Space Day

Report

Date- 23.08.2024

On the occasion of National Space Day on 23rd August 2024 SoS in Physics and Astrophysics, Pt. Ravishankar Shukla University organized a lecture by an expert Dr. Vijayan S, Associate Professor, Planetary Sciences Division, Physical Research Laboratory, on the topic “Chandrayan 3: Bharat on Moon”. The program organized in online mode association with Vigyan Bharti Chhattisgarh and Amity University Chhattisgarh.

Dr. Vijayan, a leading expert in the field of space science, provided the audience with an in-depth overview of the Chandrayan 3 mission, one of India's most ambitious lunar exploration endeavors. The Chandrayan 3 mission, highlighting its primary goals of landing a spacecraft on the Moon's south pole and conducting scientific experiments to study the lunar surface and its composition.

Using official data and videos, Dr. Vijayan explained the intricate details of the Chandrayan 3 spacecraft's design, launch sequence, and trajectory. He discussed the challenges faced by the mission team, such as the complexity of landing on the Moon's rugged terrain and the need to ensure the spacecraft's survival in the harsh lunar environment. The speaker explained how the lunar rover, Pragyan, would explore the lunar surface, collect samples, and analyze their composition.

Dr. Vijayan also shared his valuable research and findings on the impact craters of the Moon, based on the data collected by the Chandrayan 3 mission. He provided insights into the size, distribution, and characteristics of various impact craters, shedding light on the Moon's dynamic past and its role in shaping the solar system.

The presentation concluded with a discussion of the potential benefits of the Chandrayan 3 mission along with a question and answer session. Dr. Vijayan also highlighted the inspiration and pride that the mission has generated among the Indian public, particularly the younger generation.

The online meet and lecture was a resounding success. Dr. Vijayan's expertise inspired the participants to learn more about the field and consider pursuing careers in space science and technology. The event showcased the University's commitment to scientific education and its role in inspiring the next generation of space scientists and explorers.



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