



Report on Guest Lecture and Workshop by

Resource person – Dr. Kushala Rajendran

Date – 19th August 2025

Topic: “Basics of Geology”

Venue: Kalpana Chawla Space Academy (KCSA)

Kalpana Chawla Space Academy (KCSA) had the privilege of hosting a special guest lecture and workshop for the students, delivered by the renowned Seismologist **Prof. Kusala Rajendran who holds four decades of rich experience at national and international level and our BOS member**. The session was an enriching and inspiring experience, designed to broaden the young learner’s understanding of **Earth Sciences, Geophysics, and Geology**.

Prof.. Rajendran began the lecture by introducing the **basics of geophysics**, explaining how the study of physical processes helps scientists understand the structure and dynamics of the Earth. She highlighted the significance of earthquakes, plate tectonics, and seismic waves, making complex scientific concepts accessible to the students with the help of simple examples and engaging storytelling.

Moving forward, she explained the **composition of the Earth**, from the crust and mantle to the core, emphasizing the interconnected processes that shape our planet. Students were fascinated to learn how the study of **geology** not only helps us interpret Earth’s past but also equips us to predict and prepare for natural hazards in the future.

Prof. Rajendran also shed light on the role of **seismologists** in safeguarding society through earthquake studies and early warning systems. She encouraged the students to nurture their curiosity, develop scientific thinking, and consider careers in Earth and Space sciences.

The interactive nature of the lecture allowed the students to ask questions, which Prof. Rajendran addressed with clarity and warmth. Her explanations left the young audience inspired and eager to explore the vast world of science further.

The session concluded with a note of gratitude from the Academy, acknowledging Prof. Kusala Rajendran’s valuable contribution in igniting the scientific spirit among budding learners.

In essence, the guest lecture was a memorable and impactful learning experience, opening a new window of knowledge for the KCSA students.



