

\*Astronomy Session 4: 9th August 2024\*

- 1)Astrophotography Level 1: An Introduction to DSLR Camera & Working on DSLR Camera
- 2)Rocket Science Level 2: Advanced Rocketry with Launching

Astrophotography Level 1 was a much awaited astronomy session; students of VI to VIII were excited to learn how to capture the wonders of the universe through their lenses. Foremost, the students were engaged in an interactive session to understand the fundamentals of photography, variable light photography, practical use of aspects like focal length, shutter speed, ISO, exposure etc. using DSLR cameras.

Followed by an enriching hands-on activity of handling DSLR cameras to click photographs (with different camera settings) of celestial events and extended objects like the Moon, the Sun and stars as well as dim stars, nebulae, and galaxies.

These activities helped students to understand and appreciate the magnificence of the sky and discover what is outside of the visible spectrum of the human eye, thus making them sky surveyors.

On the other hand, the students of VII TO VIII could not contain their excitement while embarking on this exciting adventure into the world of rockets, by learning advanced stages of rocketry principles using hydro rockets. The students gained insights into the different components of a rocket, including engines, fuel systems, and payload compartments. The students discovered the intricacies of rocket design, materials selection and aerodynamics.

The two activities have been very engaging for the students where they asked a gamut of questions to satisfy their curiosity. The participants were fully immersed in their activities with loads of enthusiasm. They dived into the world of space imagery as well as space missions, from photographing scenes outside the visual spectrum to manoeuvring satellite launches.

Two activities collaborated for the future of space exploration, which is the goal of the Astronomy club.

