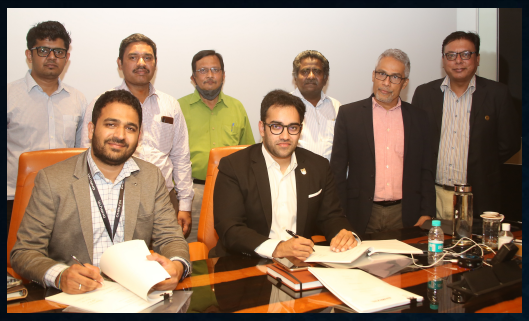
Sreenidhi to Establish Space Technology Center and Encourage Entrepreneurship in the Field



Sreenidhi Institute of Science and Technology (SNIST) to build a Space Technology Center that includes a Ground station, R&D center, and Testing lab. It is one of the first technical institutes in the country to create a full-fledged state-of-the-art space technology center on its campus. In 2019, SNIST to its credit has launched SREESAT-1, a balloon Cubesat from the Tata Institute of Fundamental Research (TIFR), Hyderabad. SNIST is now enhancing its space technology capabilities to design and develop research-based payloads with joint participation from industry, faculty, and students.

Sreenidhi's Innovation & Entrepreneurship hub **Sreenidhi-Ascend** has been driving world-class innovation in emerging technologies for the past few years. Sreenidhi Ascend has several smart future-oriented programs that inspire students to take up emerging technologies as their career and meet the demands of the fast-changing industry.

Realizing the crucial role of the space sector for human development, the institute has now established a standalone space technology center in collaboration with the leading space technology start-up, Dhruva Space.

The center will be designing and launching its first LEO satellite. The proposed Cubsat – SreeSat (A 0.5 U) is planned for launch by the end of 2022 with the following payload: Store and forward message, Relay of Amateur radio station, Monitoring of Sun energy, and Analysis of the Effects of the Atmospheric layer.

The Ground station will have the capability to monitor other satellite signals for assisting several student projects. The center will promote study in Space Science and develop customized payloads in the future by applying Hyperspectral imaging techniques, which will be useful in several application areas including Agriculture, Natural calamity prediction, Water resource monitoring, Deforestation, Container movement, and other varied applications.

India has established itself as a global leader in Space science and satellite launch technology. This progress has opened prospects for many private organizations and startups in the sector.

To cater to the emerging needs, SNIST's Space Technology Center will also focus on innovative product development and entrepreneurship in the Space sector. With the proposed objectives, the center is looking forward to paving the path for self-reliance and creating entrepreneurs that solve problems pertaining to sustainable development.