



NATIONAL PUBLIC SCHOOL, KENGERI, BENGALURU

Report on Educational Trip

Grade 9

On July 7, 2025, a cohort of enthusiastic Grade 9 students embarked on an enriching educational visit to the U R Rao Satellite Centre (URSC) in Bengaluru. Formerly known as the ISRO Satellite Centre (ISAC), URSC stands as a beacon of India's prowess in space technology, responsible for designing, developing, and fabricating satellites for various national needs.

The visit aimed to provide students with a firsthand understanding of space science, satellite technology, and the remarkable achievements of the Indian Space Research Organisation (ISRO). The URSC officials, provided a brief overview of the Centre's history and its pivotal role in India's space missions. The visit commenced with an engaging presentation that introduced the fundamental concepts of satellite communication, remote sensing, meteorology, and navigation. The students learnt about the different types of satellites, their orbits, and the diverse applications that impact daily life, from weather forecasting and disaster management to television broadcasting and mobile communication. The presenters skillfully simplified complex scientific principles, making them accessible and exciting for the young audience. A highlight of the visit was the tour of the various facilities, offering glimpses into the intricate processes involved in satellite manufacturing. The students observed the cleanroom environments where satellite components are assembled with meticulous precision, ensuring zero contamination. They were particularly fascinated by the structural models of different satellites, including communication satellites like INSAT and GSAT series, and earth observation satellites like IRS. The experts explained the engineering marvels behind each part, from solar panels and antennas to propulsion systems and scientific payloads. The sheer scale and complexity of the work being done at URSC left a lasting impression on the students, sparking their curiosity about careers in science and engineering. The interactive sessions allowed students to ask questions directly to the scientists and engineers, who patiently clarified their doubts and shared inspiring anecdotes about their work. This direct interaction proved invaluable, demystifying the world of space research and making it feel more attainable. Many students expressed newfound interest in physics, mathematics, and computer science, realizing the practical applications of these subjects in real-world scenarios.

This visit was an immensely valuable experience for the students. It not only broadened their scientific knowledge but also ignited a passion for innovation and exploration. The visit served as a powerful reminder of India's significant contributions to global space endeavours and inspired the next generation to dream big and reach for the stars.