

Workshop on Breaking Barriers: Women unlocking the potential of Space Innovation

A workshop titled *Breaking Barriers: Women unlocking the potential of Space Innovation* was organized by the Dept. of Physics, Institution's Innovation Council and IQAC, Victoria Institution (College) in collaboration with Agnirath Aerospace and Defence Research Pvt. Ltd. and supported by Astronomy Club, VIC on 22nd April, 2025 from 11:00 a.m. to 4:30 p.m. at Suniti Sabhagar, VIC. The purpose of the one day workshop is to make the students familiar with the cutting-edge innovative advancements in space exploration, to recognize the achievements of women scientists, engineers, astronauts, and technologists in the space sector, to inspire young women and girls to pursue careers in aerospace, astrophysics, and related domains. It aims further to provide a space for students to connect with the researchers, professionals and industry leaders of this field who can mentor them.

Resource persons were **Ms. Shraddha Biswas** from Indian Centre for Space Physics, Kolkata, **Dr. Madhukrishna Chakraborty**, Assistant professor, Department of Mathematics, Techno India University, West Bengal, **Ms. Sumana Mukherjee**, an Aerospace Engineer with over 6 years of expertise in space technology research and **Mr. Shounak Bhattacharya** a renowned science communicator.

As a part of the inaugural session the innovative model of a cubic satellite prototype using Arduino developed by Agnirath team, collaborator of this workshop was demonstrated. Ms. Shraddha Biswas talked about "The Integral Role of Ground and Space-Based Telescopes in Advancing Astrophysics". Talk of Dr. Madhukrishna Chakraborty was on "Fascinating phenomena of the Cosmos: Role of Mathematics" which unveils the universe, which is a vast and mysterious expanse, filled with extraordinary cosmic phenomena that challenge our understanding of space, time, and reality. The 3rd talk entitled "Space on Earth" was delivered by Sumana Mukherjee. As we all know that the future of space is being shaped by bold, brilliant women who refuse to be held back by barriers. Last talk of this workshop was delivered by Mr. Shounak Bhattacharya on "Beyond Gender: How Science Itself Is Changing Because of Women's Perspectives". His talk explores the profound impact of women's contributions on scientific inquiry, methodology, and interpretation.



Demonstration of Innovative Satellite Model



Technical Session is in Progress