

Report on Guest lecture on India's Space Explorations and Future Missions

Date of the event	22/06/2024
Title of the Event & Lecture	Guest lecture on India's Space Explorations and Future Missions
Name of the Resource Speaker	Ms. Litty Jose, Scientist/Engineer SF, ISRO, Bengaluru
No. of Participants	101
Venue	Seminar Hall 5

The department of Electronics and Communication Engineering and Industrial IOT, organized a Guest Lecture on the topic 'India's Space Explorations and Future Missions' on 22nd June 2024. The event was held at Seminar Hall 5 from 10.30 am to 12.45pm. The expert speaker was "Ms. Litty Jose, Scientist/ Engineer SF, ISRO " Bangalore, India. Students from the departments of Electronics & Communication Engineering, Aerospace Engineering & Aeronautical Engineering participated in the event and a total of 101 students attended this event.

The anchors for the program Ms.Noble Jose, 3rd year student of ECE, welcomed the guest. The event was graced by Dr. Shrinivas L Gombi, Dean Academics/ Incharge Dean Research, MVJCE, Bangalore. Ms.Deekshitha M R, 3rd year ECE student introduced the chief guest speaker, Ms. Litty Jose.



Ms. Deekshitha M R introducing the chief guest

Ms. Litty Jose has completed B.Tech in Electronics and communication Engineering from M. A College of Engineering Kothamangalam. She joined ISRO in the year 2007 as scientist /Engineer and was posted with ISRO telemetry Tracking and Command Network (ISTRAC), Bangalore

She worked as Spacecraft controller under Spacecraft operations area, worked as Spacecraft controller of Cartosat-01, Resourcesat-01, Cartosat-2A, Oceansat-01 and youthsat-01 missions. She has joined in Flight Dynamics operations area in the year 2015

She has also worked as Spacecraft operations manager for Resourcesat-2A, Microsat-01, Hysis -01 and RISAT-2B. Contributed during chadrayaan-2 mission by providing orbit information during earth bound phase and lunar phase. Currently carrying out flight dynamics related activities of CH2 orbiter mission and upcoming Aditya -L1 mission.

Dr. Shrinivas L. Gombi, shared his thoughts about guest lecture and introduced the guest and addressed the gathering.



Dr. Shrinivas L Gombi, Dean Academics/ Incharge Dean Research , MVJCE addressing the gathering

Dr. Shrinivas L. Gombi, Deans of Academics/ Incharge Dean Research, MVJCE welcomed the industry expert with a bouquet.



Dr. Shrinivas L Gombi, Dean Academics/ Incharge Dean Research , MVJCE welcoming the guest

Ms. Litty Jose shared her thoughts about India's space explorations. She has given a detailed explanation about India's Chandrayaan 3 mission and Lunar mission. She has given an insight about engineering roles and challenges of India's future Gaganyaan mission. The primary objective of Gaganyaan is to demonstrate India's capability to send humans to Low Earth orbit (LEO) and return them safely to Earth.

She has also given a detailed lecture on NISAR. It is the first hardware collaboration between NASA and ISRO on an Earth-observing mission, which is a uniquely powerful and trailblazing satellite. By combining two kinds of synthetic aperture radars, it will offer measurements of Earth's evolving surface – including changes in ice sheets and glaciers, wetlands and forests, and land around volcanoes and earthquake faults.

Ms. Litty Jose has given an idea to students about Coronal Mass Ejections (CMEs) which is large expulsions of plasma and magnetic field from the Sun's corona.





Students Attentively listening to the lecture.

The outcome of this event was our students are encouraged in creating awareness in the India's space research and future missions. They are the future hopes for applying technologies for social and economic up-lift of the country.

Ms. Deekshitha M R gave a vote of thanks in the end and concluded the enthusiastic and informative session.