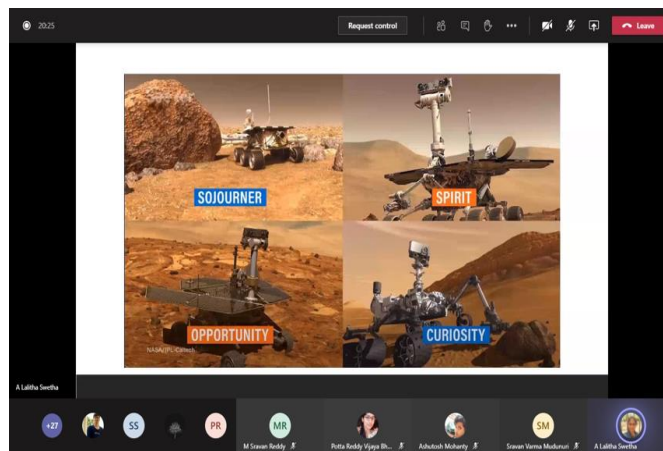


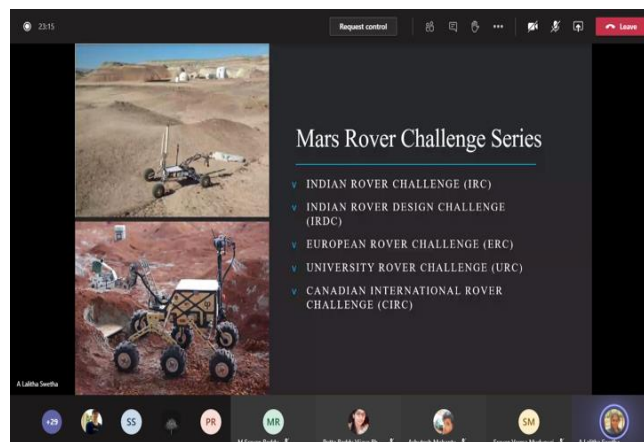
## Project Rover – The Giant Leap

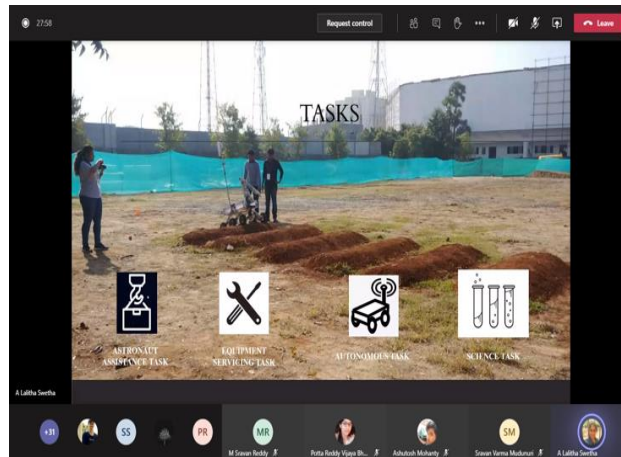
Mars has captivated humans since we first set eyes on it as a star-like object in the night sky. Since the 1960s, humans have set out to discover what the red planet has to teach us. NASA is hoping to land the first humans on Mars by 2030 and it looks up to rovers and UAVs to help in mars exploration.

ACROM-RAS conducted their first event of 2021 on Saturday, 9<sup>th</sup> January 2021, from 4.00 to 5.30 pm. The event was intended mainly for students from first and second years. It was organized to provide information about rovers and the Rover team of Amrita School of Engineering, Bangalore. The event had about 30 participants.

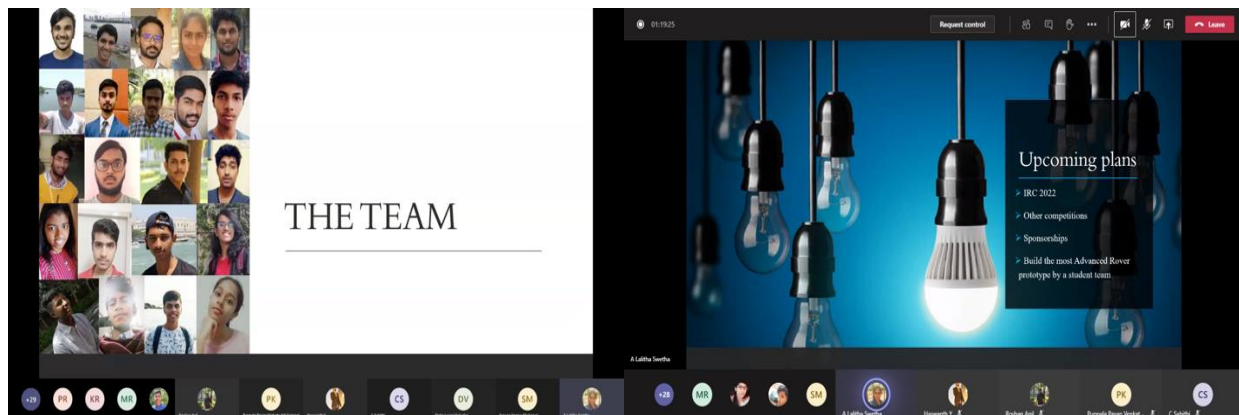


The event commenced with A Lalitha Swetha, the co-secretary of ACROM-RAS, introducing rovers and how they benefit us. She spoke about Sojourner, Spirit, Opportunity, and Curiosity, the four rovers sent by NASA. Each of these had its purpose for exploring the red planet, varying from environmental to geological studies. Swetha also talked about the forthcoming rover missions to look forward to and their intentions. She also discussed the various challenges (Mars Rover Challenge series) conducted by the Mars Society. The Rover team of Amrita School of Engineering, Bangalore, has been very productive and competitive the previous years. Swetha made sure to highlight their achievements.





The event is incomplete without a description of the development of a rover. They have 6 sub-teams, each working with a different sub-system. There are five sub-systems; mechanical sub-system, electrical sub-system, communication sub-system, computer science sub-system, and science cache sub-system. The sixth sub-team is the marketing team. Haswanth, Roshan, Pavan Adhi Sampath, and Sahithi, explained in detail about their respective sub-teams.



The event concluded with a detailed report by Swetha of the Rover team and the challenges they have participated in. The story of their journey to the top spots in international challenges seems promising. Various sponsors like Craftbot, Polymaker, Exel composites, among others, have helped the rover team realize their goals. They continue to aim high and have a clear vision of how their future should look. They are open to aspirants who share similar interests and aspirations to join them in their missions.