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**Brief Report on Expert Talk on "Space Application & Indian Perspective" held on April 27, 2022**

1 message

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Sun, Jun 12, 2022 at 11:57 AM

**A Brief Report on the Expert Talk  
"Space Application & Indian perspective"****Organized by****Department of Electronics and Communication Engineering, Faculty of Engineering, Integral University on April 27, 2022**

Dear All,

The Department of Electronics and Communication Engineering, Integral University, Lucknow organized an expert talk on "**Space Application & Indian perspective**" on **April 27, 2022** from 11:00 am in online mode. The speaker was **Mr. S. K. Pandey, Scientist-SG, ISRO Telemetry, Tracking and Command Network (ISTRAC), Indian Space Research Organisation (ISRO), Dept of Space, Govt. of India, Lucknow**. The program was coordinated by **Dr. Imran Ullah Khan**, Associate Professor, and **Mr. Mohd. Amir Ansari**, Assistant Professor, from the Department of Electronics and Communication Engineering, Integral University, Lucknow.

The program started with the welcome address by **Dr. Piyush Charan**, Assistant Professor, Department of Electronics and Communication Engineering, Integral University. In his welcome address, Dr. Charan highlighted the achievements and contributions of **Mr. S. K. Pandey** in the field of Space Research. **Mr. S. K. Pandey** emphasized on the space technologies in India, and the applications of Indian satellites. He also talked about space applications and how India began its space program. In his talk, he added the contributions of the scientists and researchers in this field and how their research has helped humanity in a better way. He also motivated the students to pursue research as their career option by sharing his experiences. He interacted with the keen participants and addressed all the queries put forward by the participants. The students found the lecture knowledgeable, informative, motivational, and relevant in the current scenario. The event was concluded with the vote of thanks by Dr. Piyush Charan, Assistant Professor, Department of Electronics and Communication Engineering. The program was actively supported by the students and faculty members of the department.

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Imran Ullah Khan is presenting

### ISRO - Vision

- Generally, the goal of a business organization is primarily profit making with growth and stability as secondary goals.
- The goal of a public organization is primarily to meet the societal needs.
- At ISRO, the vision is the application of space sciences for the benefit of common man. Achieving excellence and high reliability in space systems and services being the other goal.
- The R&D efforts at ISRO are aimed at making this goal possible and take the applications of space to the door step of common man.

**Vikram Sarabhai**



Indian space program is driven by the vision of Dr. Vikram Sarabhai, considered as the father of Indian space program.



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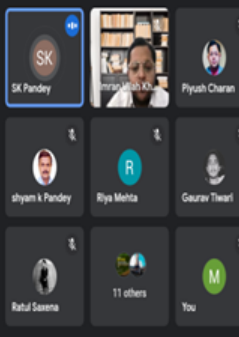
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### Satellite Applications contd.



Integral University LKO: 25<sup>th</sup> Apr 2022  
Google Earth (Sat Map)



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### Satellite Link Design



$P_r = P_t G_t G_r (4\pi R^2/\lambda^2)$  watts - Link equation  
In dB,  $P_r = EIRP + G_r - L_p$  dBW  
 $C/N = P_r/k \cdot T_s \cdot B_n = EIRP + (G/T) - L_p - k - B_n$  dBW



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Thanks and Warm Regards,

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