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SJC INSTITUTE OF TECHNOLOGY

An Autonomous Institution under VTU from 2024-25

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P.B. No. 20, B.B. Road, Chikballapur - 562 101, Karnataka.



Estd. 1986

DEPARTMENT OF ELECTRONICS & COMMUNICATION

Report on Technical Talk: Practical Perspectives of Space Communication

Event: World Space Week – 2025

Topic: Practical Perspectives of Space Communication

Date: 06th October 2025

Time: 2:00 PM onwards

Venue: BGS Conference Hall, SJC Institute of Technology, Chickballapur



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PB.No.20, BB Road, Chickballapur, Karnataka, India - 562101

Department of Electronics and Communication Engineering

DHRITVAN SPACE LAB

&

Department of Aerospace Engineering

Celebrating

WORLD SPACE WEEK- 2025

Technical Talk on

Practical Perspectives of Space Communication





Sri B A Subramani
Ex-Engineer, URSC, ISRO
Director- Educational Outreach, AMSAT India
Vice-President, IRG Labs

 **BGS Conference Hall**

 **06.10.2025**
2 PM to onwards

Coordinators
Anitha C, Vishala I L, Dept of ECE
Dr. Ravi Kumar M, Dept of ASE

Conveners
Dr. C Rangaswamy
HoD, Dept of ECE
Dr. Madhusudhan S V
HoD, Dept of ASE

Organizing Chair
Dr. Manjunath Kumar B H
Dean Academics
SJCIT Chickballapur

Finance Chair
Mr. Rangaswamy G R
Administrative Officer
SJCIT Chickballapur

Program Chair
Dr. G T Raju
Principal
SJCIT Chickballapur








Organized by

Department of Electronics and Communication Engineering and Department of Aerospace Engineering in association with Dhritvan Space Lab.

Objective of the Event

The event was organized as part of World Space Week – 2025 to provide students and faculty with insights into the real-world applications, challenges, and evolving technologies in the domain of space communication. The objective was to bridge the gap between theoretical learning and practical understanding of satellite communication systems.

Resource Person

Sri B. A. Subramani
Ex-Engineer, URSC-ISRO
Director – Educational Outreach, AMSAT India
Vice-President – IRG Labs

Mr. Subramani, with decades of experience in the Indian space program, shared valuable perspectives on communication technologies used in satellites, ground stations, and amateur radio-based space communication.

Summary of the Session

The session began with a welcome address of the Resource Person and the profile read.

Sri B. A. Subramani delivered an engaging talk on the evolution and practical challenges of space communication systems. He discussed:

1. The fundamentals of satellite communication links (UHF, VHF, S-band).
2. The design and operation of CubeSats and nanosatellites.
3. The role of amateur satellite missions under AMSAT India.
4. Ground station setup and telemetry reception.
5. The importance of hands-on learning through student satellite programs.

He also highlighted India's contributions to small satellite development and encouraged students to participate in research and innovation in this emerging field. The talk was followed by an interactive Q&A session, where students clarified their doubts on antenna design, link budget analysis, and software-defined radio applications.

Outcome of the Event

The talk provided participants with an enhanced understanding of how space communication operates in real-world missions. It motivated students to explore opportunities in satellite design, communication protocols, and related research areas.

The event strengthened the collaboration between ECE and Aerospace Engineering departments through Dhritvan Space Lab initiatives.

Coordinators

Anitha C, Department of ECE

Vishala I L, Department of ECE

Dr. Ravi Kumar M, Department of ASE

Conclusion

The technical talk on “Practical Perspectives of Space Communication” was highly informative and impactful. It successfully aligned with the theme of World Space Week 2025 — “Exploring Space for a Sustainable Future”, inspiring students to pursue excellence in space technology and research.

Event Photos









