

Report on Expert Lecture on “Satellite Link Budget”

An expert lecture on “**Satellite Link Budget**” was organized by the **Department of Electronics and Communication Engineering, Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar on 8/09/2026**. The lecture was delivered by **Dr. Akhilesh Verma, a subject expert and scholar from Germany**, who shared valuable insights into satellite communication and its growing significance in modern wireless networks.

During the lecture, Dr. Verma elaborated on the **importance of satellites in present-day wireless communication systems**. He explained how satellite-based communication has become an essential component of modern connectivity and is increasingly being utilized in various sectors, including **homes, offices, banking, communication networks, and other critical services**. He discussed the basic concepts and practical aspects of **satellite link budget**, enabling students to understand the various parameters that influence the performance and reliability of a satellite communication link.

Dr. Verma also discussed the emerging field of **nanosatellites** and highlighted the major challenges associated with their design, development, fabrication, launching, and operation. He explained the importance of proper budgeting and system planning for successful satellite missions. His presentation provided students with an understanding of the technological and engineering challenges involved in developing compact satellite systems.

The **Dean of the Faculty of Engineering and Technology** emphasized that lectures and interactions on emerging technologies are highly relevant in the present era. He stated that exposure to advanced technologies such as satellite communication helps students develop a better understanding of contemporary engineering practices and prepares them for future technological developments.

Professor Vipul Sharma, Head, Department of Electronics and Communication Engineering, warmly welcomed **Dr. Akhilesh Verma** and introduced the expert to the students and faculty members. He highlighted the increasing importance of the satellite communication sector and informed students about the **career and employment opportunities available in the satellite and space technology domain**. He encouraged students to develop technical skills and pursue opportunities in emerging areas of electronics and communication engineering.

Following the lecture, **Hon'ble Vice-Chancellor, Professor Pratibha Mathur Luthra**, blessed the students and extended her best wishes for their academic and professional growth. She appreciated the initiative of organizing an expert lecture on an emerging and globally relevant technological area.

Registrar, Professor Satyadev Nigam Alankar, appreciated the successful organization of the lecture, which brought together academic and technological perspectives from **India and Germany**. He encouraged the department to organize more such expert lectures and academic interactions with national and international experts in the future.

Many **students** from the university attended the lecture and actively participated in the session. Faculty members including **Prof. Tiwari, Prof. Panwar, Dr. Anuj Kumar Sharma, Dr. Atul Varshney, Dr. Amrish, Dr. Shiv Kumar**, and other faculty members were also present during the programme.

The lecture provided students with valuable exposure to **satellite communication, link budget analysis, nanosatellite technology, and career opportunities in the space and satellite communication sector**. The interaction with an international subject expert also contributed to strengthening global academic exposure and encouraged students to explore research and professional opportunities in advanced communication technologies.

Glimpse of Event



The poster is for an 'EXPERT TALK' held by the Faculty Of Engineering & Technology at Gurukul Kangri (Deemed to be university), Haridwar. The topic is 'Design of Up/Down Converters and Link Budget Analysis for Satellite Application'. The speaker is Dr. Akhilesh Verma, a Research Scientist at Brandenburg University of Technology, Germany. The event is scheduled for September 08th, 2026, from 12:00 to 01:00 PM. The venue is NSH. The poster features a circular portrait of Dr. Verma wearing glasses and a headset. The background is dark blue with white and yellow text and decorative elements like dotted lines and wavy patterns.

Faculty Of Engineering & Technology
Gurukul Kangri (Deemed to be university), Haridwar

EXPERT TALK

Design of Up/Down Converters and Link Budget Analysis for Satellite Application

Speaker
DR. AKHILESH VERMA
Research Scientist:
Brandenburg University of
Technology , Germany

DATE
September 08th, 2026

TIME
12.00 TO 01:00 PM

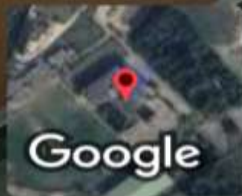
VENUE: NSH

Department of Electronics and Communication Engineering





GPS Map Camera



Haridwar, Uttarakhand, India 

W387+hm3, Haridwar, Uttarakhand 249402, India

Lat 29.916749° Long 78.063792°

Tuesday, 08/09/2026 12:35 PM GMT +05:30

Student's Attendance

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