



IMPLEMENTATION OF **STAPES CONFERENCE SYSTEM** MICROPHONES WITH **CAMERA CONTROL** ENHANCED THE AUDIOVISUAL EXPERIENCE AND OPERATIONAL EFFICIENCY AT **QUANTUM UNIVERSITY, ROORKEE**



**CASE  
STUDY**



## Introduction

Quantum University offers a unique interdisciplinary environment where students can study combinations such as computer science with economics, agriculture with entrepreneurship, or an MBA with cyber security. Students also have the opportunity to pursue their passions in theatre, sports, music, dance, photography, and more in the IITians and Engineers' hub city of Roorkee.

## Project Overview

To enhance communication capabilities within its sprawling campus, Quantum University installed an advanced Digital Conference System featuring 20 microphones with camera focus and control. The system includes 20 delegate units and 1 chairman unit, facilitating seamless and efficient communication during meetings, conferences, and training sessions

## Objectives

1. **Enhance Communication with VC:** Improve the clarity and efficiency of communication during meetings and training sessions for video conferencing.
2. **Camera Control:** Ensure the camera focuses on the speaker at the time of speaking, enhancing the video conferencing experience.





## Challenges faced in the project:

The implementation of STAPES Delegate and Chairman Microphones at Quantum University, Roorkee successfully navigated multiple challenges to transform their normal meeting room into a video conferencing room. Despite the room's small area for camera movement and the need to focus on a specific person in real-time, the STAPES system overcame these obstacles with advanced face focus and "look at me" technology, providing superior picture clarity. Designed for hot swap ability and user convenience, the sleek, modern microphones not only enhanced aesthetics but also accommodated the Chairman's frequent seat changes effortlessly.

This proved instrumental in fostering productive and engaging meetings amidst demanding conditions. This installation exemplifies the pivotal role of tailored AV solutions in mitigating technical and environmental challenges to enhance operational efficiency in educational facilities



## Technical Implementation:

- **Model:** STAPES Digital Gooseneck Conference System with Camera Control
- **DSP:** STAPES 8X8 Dante Digital Signal Processor for VC and local conference
- **Digital Chairman/ Delegate Microphone Units:** 20 delegate units and 1 chairman unit
- **Video Tracking:** Automatic camera tracking feature integrated
- **Sync with Video Conferencing:** Compatible with TEAMS, Zoom calls

## Integrator's Experience:

Sameer Malhotra, Managing Director of Audio Systems, Dehradun, shared his experience:

*"The university management decided to create a VC room for Vice Chancellors, teachers, and for local meetings, interviews, and student communications with other campuses. All STAPES conference microphones delegate and chairman units are in sync with the camera. As soon as someone speaks, the camera moves to that person and broadcasts on Teams or Zoom platforms. The challenge was to ensure proper 'look at me' feature for each microphone communication in the conference room. So, we decided to use the STAPES Digital conference system with a camera, which can easily capture two delegates' voices from a distance. The audio and video quality, along with the camera movement, is quick and comfortable, and we handed over the project on time. The STAPES team is so professional that they installed everything in half a day with camera control ability. We have confidence in STAPES Microphones as they are designed in Luxembourg and assembled in India with a professional finish and excellent services. We have also commissioned seven projects in Uttarakhand with STAPES conference products, all of which are working exceptionally well in terms of support, timely delivery, installation, and training. Kudos to the STAPES team."*



### About Manufacturer: Stapes & Bauble Private Limited

Founded by **Anshuman Dubey, Stapes & Bauble Private Limited, an ISO 9001: 2015 certified company**, is committed to excellence, delivering unmatched audio solutions and service nationwide. Specializing in manufacturing Audio Conference Systems, Ceiling, Boundary, Gooseneck, and Wireless Microphones, Digital Signal Processors, PTZ VC cameras, and Speakerphones, they ensure efficient distribution through their assembly unit located in the National Capital Region, via NH 48. With fully equipped Service Centers in Gurgaon, Dehradun, Pune, Bhopal and Ahmedabad, they provide timely support and maintenance through distributors across the country.

**Anshuman Dubey**, expressing gratitude, stated:

*"We are deeply grateful for the outstanding work and dedication shown by Sameer Malhotra from Audio Systems, Dehradun in the successful installation of our new conference system. Your team's professionalism, expertise, and commitment to excellence have transformed our communication capabilities and exceeded our expectations. Thank you for delivering a solution that enhances our collaboration and productivity. We look forward to continuing our partnership and achieving more milestones together."*

This collaboration highlights the importance of reliable partnerships and high-quality products in transforming communication infrastructure in healthcare settings.