

## **CubeSats: Revolutionizing Space Exploration and Education**

Rehan Ahmed

ITC, Islamabad

*\*Email: jhes@edu.uop.pk*

This talk will provide an in-depth exploration of CubeSats, the innovative miniature satellites that are reshaping the landscape of space exploration and education. The core systems and components of CubeSats will be discussed, including their design, development, and deployment processes. Participants will gain a comprehensive understanding of the technical challenges and solutions associated with CubeSat missions. Additionally, the seminar will highlight the pivotal role of CubeSats in STEM education, demonstrating how they offer students practical, hands-on experience with cutting-edge space technology."

**Keywords:** CubeSats; STEM; satellites; landscape; education; exploration