

# Training on "Space Mission Analysis and Design (SMAD)" 13-17

## Apr 2026

ISNET successfully organized a five-day online training course on “**Space Mission Analysis and Design (SMAD)**” from **13-17 April 2026** as part of its capacity building initiatives in space science and engineering. The course was designed to provide participants with the fundamental knowledge and practical understanding required for conceptual space mission planning and systems engineering. The training brought together undergraduate and graduate students, researchers, early career engineers, and professionals interested in strengthening their expertise in space mission analysis and design. The program covered key topics including mission requirements, orbital mechanics, launch vehicle architecture, propulsion systems, spacecraft subsystems, Guidance, Navigation and Control (GNC), Attitude Determination and Control Systems (ADCS), payload integration, and systems engineering methodologies. Participants’ also explored mission planning for Low Earth Orbit (LEO), Medium Earth Orbit (MEO), and Geostationary Earth Orbit (GEO). By the conclusion of the course, participants had acquired the knowledge and analytical skills necessary to design and assess conceptual space missions, enabling them to apply modern mission planning techniques and systems engineering principles in academic, research, and professional space-related activities.

