

Department of Aero Engineering

Astronaut Training

SANDIP UNIVERSITY

School of Engineering & Technology

Department of Aerospace Engineering

EVENT REPORT OVERVIEW

- **Name of Event:** One-Day Intensive Workshop on Astronaut Training Mechanics
- **Date of Event:** 06/09/2026
- **Time:** 1 week onwards
- **Venue:** Propulsion Lab / Aerodynamics Lab, AATC habitat, Poland
- **Name of Coordinator:** AATC Team
- **Organizing Committee:** AATC Team
- **Number of Participants:** 1
- **Sustainable Development Goals (SDGs) Mapping:** SDG 4 - Quality Education, SDG 9 - Industry, Innovation, and Infrastructure.

Details of Speaker/Designation:

- **Name & Designation:** AATC Team, Jaswant sri sista (2nd year student, SOET)

Brief Description of Event:

The Proud Moment for the Department of Aero Engineering. We are delighted to share that Jaswanth Sri Sista, a Second-Year B.Tech Aerospace Engineering student from the School of Engineering and Technology, has successfully completed his Analog Astronaut Training at AATC, Poland. He has been honoured with Astronaut Certification, marking a proud achievement for himself, his family, and the Department of Aero Engineering. This remarkable accomplishment reflects his dedication, passion for aerospace, and enthusiasm for exploring new frontiers in space science and technology. Heartiest congratulations to Jaswanth Sri Sista! Proud of our student! Proud of our department.

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Objective of the Event:

- To introduce students to space environment physiology, thermal stress limitations, and zero-gravity simulations.
- To decode the trajectory mathematics, orbital mechanics, and landing controls used in human spaceflight.

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- To explore the engineering behind Life Support Systems (ECLSS) and spacesuit materials.
- To inspire students to target advanced research specializations in human space exploration programs.

Outcome of the Event: After attending the session, participants were able to:

1. **Evaluate Space Environments:** Define the physical, radiological, and gravitational parameters impacting manned spacecraft design.
2. **Model Life Support Logistics:** Identify critical functional loops within environmental control and life support systems.
3. **Map Re-Entry Profiles:** Calculate basic drag, heat generation, and deceleration trajectories for incoming spacecraft.
4. **Interface with Space Avionics:** Interpret workspace dashboards, error flags, and control loop logic typical in spacecraft operation.

Impact on Society:

- This training develops highly specialized engineering competencies critical to supporting domestic national space initiatives.
- It positions the university as a leading center for advanced workforce readiness in deep-space engineering sectors.
- It sparks broad community interest in scientific fields, driving long-term support for space exploration.

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Programme Coordinator

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HOD