

DS-SAT (Dayananda Sagar Satellite / Vishnu Chakra Payload 1)

Orbital Payload Developed with Dayananda Sagar College of Engineering

Sector: Space Technology · Satellite Payload

DS-SAT is an orbital payload program developed in collaboration with Dayananda Sagar College of Engineering. The Vishnu Chakra Payload 1 mission applies multidisciplinary engineering to build, test and prepare a flight-ready satellite subsystem.

Technical Focus

- Payload instrument and subsystem engineering
- Satellite bus integration, power and communication interfaces
- Environmental test and qualification for orbital operation

Gonagoor Support Provided

- Seed funding provided by Dayananda Sagar College of Engineering
- Technology foundations and mission architecture
- Mathematical modelling for orbital dynamics and sensor performance
- Prototyping and hardware-in-the-loop validation
- Market access and space-ecosystem partnership support
- Grant and funding support for academic and space programs
- Product development and flight-readiness support

Impact & Outcomes

- Delivered integrated payload engineering framework for the mission
- Established collaboration between academic and applied engineering teams
- Prepared qualification pathway toward launch and on-orbit operations

Prepared by Gonagoor Technologies — Where research meets engineering.