

# ASTROPHYSICS CLUB

## S.P.I.T



# Who Are We?

The newest club in the college! Astrophysics Club SPIT is a club founded in August 2023 by Amey Agarwal and Shivani Bhat under the guidance of Ms. Pallavi Nair. We aim to promote interest and research in the field of space science and technology. We aim to actively involve students in creating projects , solving real life problems, creating awareness and collaborating with research institutions in the field of space.

# MISSION STATEMENT

To see our college achieve new heights in Space research and bring in SPIT the next big revolution in designing effective and efficient satellites.

# OUR VISION

To represent our college in National and International Projects and make satellites for sending research proposals to prestigious institutions like ISRO and DRDO

# MEET THE TEAMS



# Team SPriha



# Events Team



# Research Team



# CORE TEAM

Chairperson and Captain of Team SPriha: Amey Agarwal

Faculty Head: Ms Pallavi Nair

Vice Chairperson: Priyanka Waghmare

Head of Events: Manjali Varma

Head of Creatives: Neha Adhikari

Head of Finance: Keshav Jha

Head of Research: Chaitya Dobariya

Head of Outreach and Vice Captain of Team SPriha: Shivani Bhat

# Team SPriha

Team SPriha is the official CANSat Team of Sardar Patel Institute of technology. CANSat is the smallest possible satellite, it is the size of a soda can. Astrophysics Club SPIT has started with the mission of implementing a CANSat and participating in the CANSat competition organized by NASA and US Naval research laboratory. Headed by Amey Agarwal (Captain) and Shivani Bhat(Vice Captain), Team SPriha is a 10 member team comprising of students of computer, electronics and telecommunication and mechanical engineering students who have put their skills to test as we build our club's satellites!



# Events Team

The events team , headed by Manjali Varma is responsible for planning and executing exciting events for all space enthusiasts across the college. This team is a creative powerhouse of ideas of keeping the college updated and engaged about the latest advancements in space sciences and technology.

# Past Events



## Inaugural Event

Astrophysics Club SPIT had a grand inauguration on 6th September 2023 graced by the presence if Dr YS Rao and an ISRO Scientist. The event was attended by the mentor, Ms Pallavi Nair and all the student members of the club and was a fresh,new beginning!



## Awareness Session

On 26th November 2023, Team SPriha, in collaboration with Idealab SPIT held an awareness meeting about CANSats and the mission, vision and current endeavours of the club.



## Talk with Mr Jayesh Banatwala

On 16th January 2023, a special guest lecture was arranged. Mr Jayesh Banatwala is an expert in antenna and ground station design and he discussed CANSat ideas with Team SPriha.

# Our Upcoming Events



## Astrophotography

This event is aimed at those who are thrilled by clicking photographs and timelapses and venture out to capture the beautiful night sky. Scheduled in February, this event will surely be a treat to our eyes!



## ML Hackathon

For students deeply interested in AI and Machine Learning , a Hackathon awaits you as you join your teammates to solve real world problems using your machine learning skills in February!



## HAM Fest

In the month of March, we will be introducing and bringing the culture of use of HAM radio and we will learn the use of Antennas and Satellite Communication

# RESEARCH TEAM

The research team consists of two wings, a research wing and a proposal wing. Headed by Chaitya Dobariya, the research team will look for the latest trends in space technology and will write interesting research papers. The funding wing will approach research institutions and organizations for collaborations and will bring golden opportunities for the research wing.



# OUR RESEARCH AREAS

01

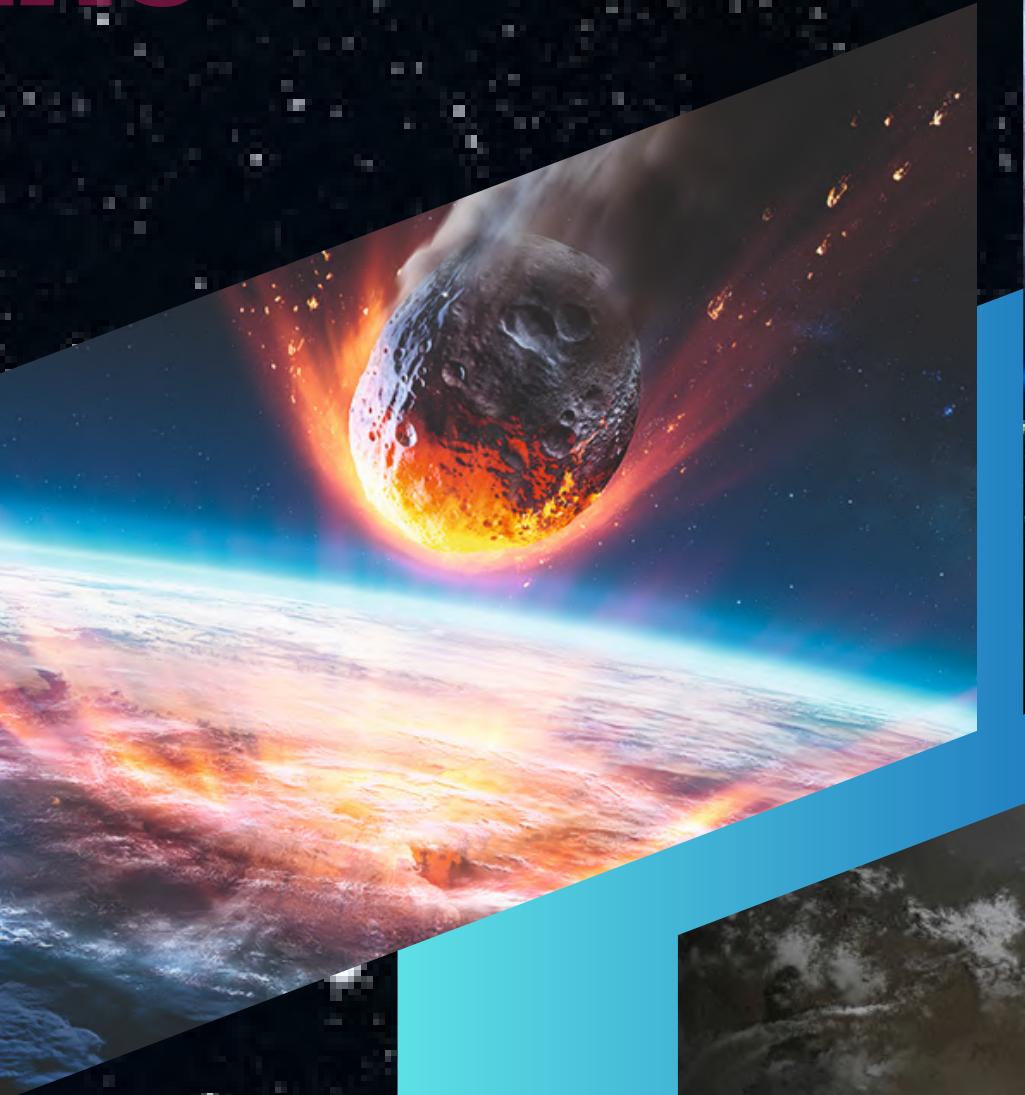
Asteroid Impact Mitigation  
Technologies

02

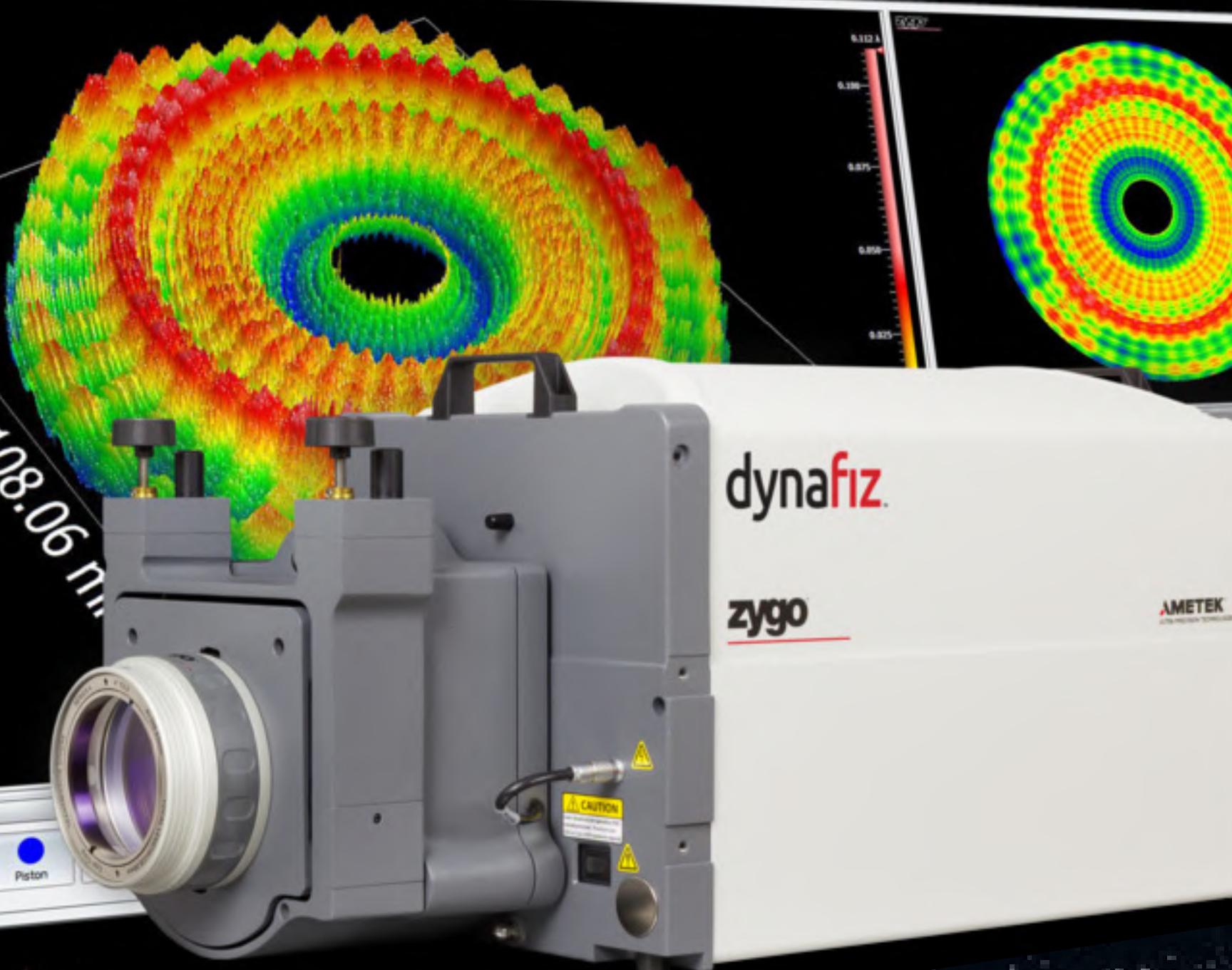
Anomaly Detection in  
Satellite Telemetry

03

Exoplanet Detection using  
Machine Learning



# OUR RESEARCH AREAS



04

Laser Inferometer for Observation of  
Gravitational Waves [LIGO]

05

Efficient Energy Utilization  
using Solar Energy

# OUTREACH TEAM

Astrophysics SPIT is not just a club, it is an experience. We do our bit by reaching out to all sections of society by participating and volunteering to inspire school-going students in making a dream career in Space Sciences.

Headed by Shivani Bhat, the Outreach team will teach the concepts of Space to the younger generation and help them unlock the magic of the universe.



# CONTACT US!

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[https://www.instagram.com/astrophysics\\_club\\_spit/](https://www.instagram.com/astrophysics_club_spit/)

Linkedin:

<https://in.linkedin.com/company/astrophysics-club-spit>

The background of the image is a dark, deep blue color, representing a night sky. It is densely populated with numerous small, white stars of varying sizes. A prominent, faint, glowing nebula or galaxy is visible in the center-right area, appearing as a soft, purple and blue hue. The overall texture is slightly grainy, suggesting a photograph of a real astronomical scene.

Thank you!