



CENTRE FOR AUTONOMOUS SYSTEMS

One Stop for Autonomous Drones!



VISION

To create a unique environment to facilitate and accelerate the design, development and training of the Unmanned Air Systems (UAS).

MISSION

To head innovations through global participation and to lead, integrate and deliver multidisciplinary research and develop solutions in Unmanned Aerial Vehicle.

About the Centre

The Centre for Autonomous Systems is the gateway to a unique environment created in HITS to facilitate and accelerate the growth of the Unmanned Air Systems (UAS) industry. Centre for Autonomous Systems is the first UAS research, training and development range of its kind among Indian educational institutes. With safety and training ,UAV operations are delivered by Department of Aeronautical Engineering, HITS & its access is enabled to:

- Unmanned air systems R&D
- Integrated unmanned air systems operating environments
- Expert technical and operational support
- Outstanding infrastructure and test facilities
- Development and demonstration flight trials
- Drone Training



Centre for Autonomous Systems was inaugurated on 3rd October 2015 by Dr.Kiran Kumar, Chairman, ISRO

RESEARCH ACTIVITIES

(In-house Project completed worth of 13 lakhs)

- Design & Testing of Rukma Vimana (Ancient Aerial Vehicle Development) VTOL UAV.
- Low Cost Agricultural drone for Pesticide Spraying in progress.
- Swarm of drones (pairing of master & slave drone) in progress.
- High Payload Fraction Fixed wing UAV is successfully fabricated & tested.
- UAV with SMA as control surfaces is in progress.
- Assembly & Testing of Coaxial Drones- A consultancy project is in progress in collaboration with ST Advanced Composites.

ACCOLADES







11" Position globally in TECHNICAL PRESENTATION

SAE AERO DESIGN EAST - 2020

Design Report: 4" Position in Asia Pacific Region

Lakeland, Florida, USA

Department of Aeronautical Engineering

CONGRATULATIONS!

6th - 8th March 2020

Team Striker won first prize in "FLIGHT FURY" an Aeromodelling Competition conducted by IIT ROORKEE (Cognizance 2023) and bagged cash prize of Rs. 2 lakhs out of 30 participating teams







CONGRATULATIONS!

Congratulations!

Mr. Harikrishnan, Dept. of Aerospace, Batch 2021. CEO & Founder of Dream Aerospace Pvt. Ltd received Rs. 10 Lakhs from TANSEED 4.0 as start up fund from Honourable Chief Minister of Tamil Nadu, Thiru, M. K. Stalin.



STUDENT ACHIEVEMENT



www.hindustanuniv.ac.in









SAE AERODESIGN



2017



2018



IAF Swarm of Drone Competition



National Level Competition open to Industry / **Academics / Students**

HITS Student team qualified to both

Phase I:30 teams out of 1000 entries

Venue: Subroto Park, IAF stadium on 22-Dec-2018

Phase II: 10 teams out of 30 teams

Venue: AERO INDIA, Bengaluru on 21-Feb-2019





Asia's First Flying Bike



Team "Jhatayu" was awarded by "Asia Book of Records" & India
Book of Records as "Asia First Flying Bike"
This is the first project of the University entered into
the Asia Book of Records





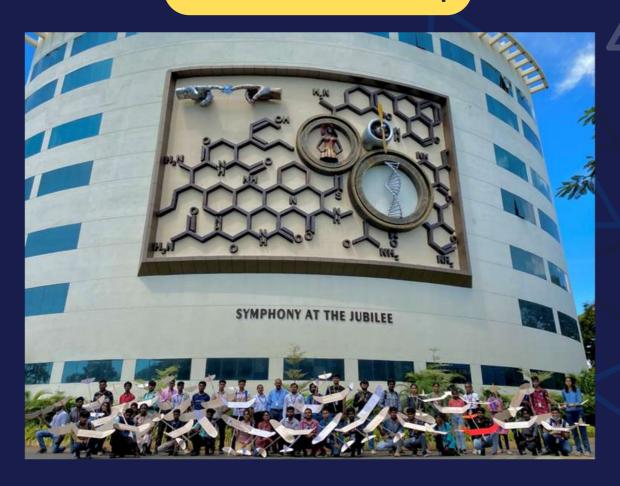


MoU's

- ST Advanced Composites Pvt Ltd.
- Dronoid Aerospace Pvt Ltd.
- Felix Aviation Services
- Bala Atral Solutions Pvt Ltd.



Throw Glider Workshop



Contact Us:

Centre for Autonomous Systems (CAS)
School of Aeronautical Sciences
Hindustan Institute of Technology and Science
Bay Range Campus,
#1, Rajiv Gandhi Salai (OMR), Padur,
(Via) Kelambakkam,
Chennai - 603 103,

Visit Us:

www.hindustanuniv.ac.in/cas
Mail id: gdineshk@hindustanuniv.ac.in
Phone:044 27474264/4395 EXT:150