

Innovative Clubs Activities

Antariksh



Space Payload Design Challenge

This was a unique and one-of-a-kind competition organised and hosted by team Antariksh in the premise of 8th Mile on 15th June 2023. The event was designed in the format of an overnight Hackathon, where 11 teams of engineering students from various colleges across the country were given a problem statement to design a payload with certain specifications. All the teams had to present their payload to a Judging panel of Industry experts and Academia, which included Mr. Brijesh Soni, Dy. Dir at InSPACE, Mr. Tanveer Ahmed, Co-founder and CTO at Digantara and Prof. Srinath, Dept. of ASE, RVCE. The top three winning teams were rewarded cash prizes, as an incentive to work towards their ideas in real life. The top prize was bagged by a team from MSRIT, Bengaluru.





October Sky 2023

October Sky was 2 day hands on workshop organised by the members of Team Antariksh. This workshop was conducted to give its participants an idea about model rocketry. The attenders of the workshop were taught about the different subsystems that make the rocket. Various tests such as a drop test, nose cone ejection test and several static fire tests were done. The first day began with introduction to model rocketry and explanation of the different subsystems. On the second day the attenders were taught how to make a rocket motor.



Insight Mk – 1 Launch 2023

Insight Mk – 1 was the first model rocket developed by Team Antariksh. The rocket had an expected apogee of 1200ft. The members of the team worked for 4 months to build this rocket. The rocket propellant consisted of Potassium Nitrate and Dextrose mixed in the ratio 65:35. The body of the rocket was made of multiple layers of Kraft Paper. The launch took place on April 2nd near Jain University, Kanakapura Road.



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Insight Mk 1.5 Launch 2023

Insight Mk 1.5 was the first sounding rocket built by Team Antariksh. It took flight on July 1st, 2023. The rocket consisted of an energy harvesting payload which contained piezoelectric materials to aid this work. The body of the rocket was made up of acrylic. The rocket employed a in house built flight computer along with a COTS flight computer. The expected apogee of this rocket was calculated to be 220m. The actual apogee of the rocket was close to 210m.



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Insight Mk – 2 Launch 2023

Insight Mk – 2 was built to compete in the 1km solid propellant category of the Latin America Space Challenge, 2023. Latin America Space Challenge is an annual rocketry competition held in Brazil. Rocketry teams from all over the world compete in this competition. Team Antariksh was one of the 2 Indian teams to participate in this competition.



Astra Robotics



ESCALADE (22 July 2023)

Astra Robotics in collaboration with team Techniche of IIT Guwahati had the opportunity to conduct the zonal level prelims of the Escalade 12.0 in Bangaluru.

Escalade, the flagship National Robotics Competition, organised by the Robotics module of Techniche, is the largest and fastest-growing robotics event in the northeast with more than 500 participants and 100+ teams the previous year. The aim of the competition is to test the participants' skills to make and control robots and to test the robots in specified tasks which mainly focuses on the ability of the robot to climb. It is a team event. In this edition of Escalade 12.0, an event on making robots capable of moving on a flat surface, climbing up the staircase, crossing zip-line by hooking itself, and being able to pick/hold and shoot balls.





Ham Club



Morse decoding (8th Mile):

In celebration of the 8th Mile at R V College of Engineering, the RVCE Ham Club hosted an exciting event called "Morse Decoding" on June 17, 2023. This event offered a unique and captivating treasure hunt adventure with a Morse code theme. Participants, totalling 31 teams with three members each, eagerly registered for this intriguing challenge. Each team was armed with essential tools, including a Morse code reference sheet, a set of rules, the initial clue, a specially crafted map of the RVCE campus, and paper for tracking their clue progress. The event commenced at 10:30 am, with all 31 teams in attendance, beginning with a comprehensive overview and an engaging introduction video. The teams' mission was to decipher a series of Morse-encoded clues, cleverly embedded in various forms, such as light signals, circuit decoding, eye blink messages, and audio messages, providing an exciting blend of intrigue and challenge. The first three teams to successfully follow the trail of clues and reach the final destination were rewarded with cash prizes and vouchers, adding a competitive edge to the adventure. "Morse Decoding" garnered widespread acclaim and positive feedback from the enthusiastic participants. The event concluded around 2:30 pm, leaving participants with lasting memories of a thrilling and intellectually stimulating experience.





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Team Jatayu



We proudly participated in the IIT Roorkee Drone Competition and achieved a remarkable 4th place ranking. Our team's dedication and hard work led us to this achievement, showcasing our skills and commitment to excellence in drone technology





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Team Ashwa Racing



Organized a F1 Simulator Event for 8th Mile, the Annual Fest of RVCE (June 2023)

