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Autonomous
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Technological
University, Belagavi

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New Delhi

Innovative Clubs Activities

Antariksh



International Astronautical Congress 2021

Team Antariksh marked its presence at the 71st International Astronautical Congress 2021 hosted in Dubai, UAE. The team members met industry giants, professors from different institutes, Indian Nationals engaged in national and international institutes, personnel from ISRO and space agencies from other countries. The event saw presence by prominent space industry figures and entrepreneurs such as chairman ISRO, Director of NASA and Elon Musk. A total of 7 papers were presented in multifarious symposiums.



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Ham Club



- Successfully built three YAGI UDA 3-element antennas and a Moxon antenna.
- Three technical workshops were organized to train students for the HAM license exam.
- RVCE had 3 teams that participated in the Fox Hunting Competition organized by IIH in association with the Department of Sports, Government of Karnataka.
- Organised three Inter-college Antenna-Building Workshop to provide students a hands-on experience in building an antennas and attenuators, and a visit to the anechoic chamber at SASM, RVCE.
- Organised an event 'MORSE DECODING' based on Morse code as a part of 8th Mile on 17th June at RVCE.
- We currently have 54 Ham licenced students from RVCE.
- Ham club RVCE in association with IEEE Women in Engineering affinity group, conducted a webinar on 25th August 2020 on "The Role of HAMs in COVID-19 Relief Operations" with Dr. S Sathyapal, director of Indian Institute of Hams, as the guest speaker.





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RVCE Solar Car Team



SASOL SOLAR CHALLENGE, South Africa



The South African Solar Challenge is an alternative fuel auto racing challenge in South Africa, with classes for hybrid vehicles, electric vehicles, solar vehicles, and biofuel powered vehicles. The first challenge was held in 2008, and it runs every two years. The race distance is over 4,100 km (2,500 mi). The journey starts in Pretoria and ends in Stellenbosch.

ROUTEMAP



The Sasol Solar Challenge is a biennial competition. Teams from across the world design and build solar-powered vehicles to drive across South Africa in an eight-day event. The challenge sees a collaboration between scholars, students, private individuals and various industry and government partners, to work together to have a safe and technology-rich event.



RVSCT will be participating in SASOL Solar Challenge in 2020 and competing against teams from MIT, Stanford, TU Delft and Tokai University to manufacture and race highly advanced Solar Car prototypes.





AERODOMINATOR 7.0



OCTOBER, 2020

RV College of Engineering
Team Vyoma (2)
Team number : AD - 009

The Guppy

Team members
Abhinav Ashish Chaudhary
Arpan Mondal
Govardhan K
Tejaswini R T
Vishal Hebbalu Jagadish

Figure 15: Primary design of The Guppy with point masses in XFLR5

The second plane was designed to have a rectangular wing constructed from MH 114 airfoil with elevator and fin designed from NACA 0009 airfoil. The position of the wing and elevator are determined by repeatedly performed simulations and stability of the plane is analyzed. The designed plane was named The Guppy, further details of the plane are given in the table below.

Parameter	Value
Wingspan	80cm
Wing chord	15cm
Elevator span	30cm
Elevator chord	12cm
Fuselage length	80cm
CG position	29.06 from
Stall velocity	110.00km/h

TABLE 2: List of important characteristics of The Guppy

Figure 16: Primary design of The Guppy with point masses in XFLR5

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OBJECTIVE

Objective of the competition was to design an electric, radio-controlled aircraft that can carry and deliver medical supplies.

SUMMARY

Two teams from Vyoma represented the college. Each team consisted of five members working towards the same objective with two separate designs.

RESULTS

TEAM 1	TEAM 2
AD - 10	The Guppy
Rank -	Rank -
Finished 13th	Finished 8th

AERODOMINATOR 7.0



OCTOBER, 2020

AERODMINATOR 7.0 RESULTS

Rank	Team Number	Team Name	College Name	Design Report	Technical Presentation	Predicted Flight Score	Total Score
1	AD-005	Team Viraasas Inc.	VIT University, Vellore	40.625	37.5	9.58	87.705
2	AD-011	Aero MIT	Manipal Institute of Technology	34.75	33.75	8.24	76.74
3	AD-012	Team Oriya India	K.J. Somaiya College	34.25	32.25	8	76.5
4	AD-027	Team Curves RVC	VIT University, Vellore	27.375	29.25	7.78	64.408
5	AD-022	Challengers	Shriyadar College	33.675	21.25	6.81	63.735
6	AD-020	Skylanders	BITS Goa	25.375	28.5	9.76	63.635
7	AD-025	Daredevils	MLR Institute	23.25	29	7.93	60.18
8	AD-009	Team Vyoma (2)	RVCE	23.125	25.75	8.84	57.619
9	AD-024	Spars	SIRM	20.875	29.5	8.75	55.125
10	AD-001	Three Dimensions 1	NIT Trichy	24.625	22.25	6.16	55.025
11	AD-006	Furiosa Falcons	BMS College of Engineering	31.375	17.75	4.63	53.755
12	AD-016	SPAERO	M.H. Saboo Siddh College of Engineering	22.75	21	6.96	50.71
13	AD-010	Team Vyoma (1)	RVCE	16.625	21.5	0.28	40.405
14	AD-003	Ortus	VIT University, Vellore	23	18.25	7.99	49.14
15	AD-002	Three Dimensions 2	NIT Trichy	18	24.5	6.14	48.64

TEAM 2

TEAM 1

CERTIFICATE





AERODES - TECHKRITI



TECHKRITI'21

MARCH, 2021

OBJECTIVE

Objective of the competition is to design dual-purpose regional and business aircraft that can take off and deliver a payload to a target area.

SUMMARY

Two teams from Vyoma represented the college. This competition was held through online mode and required presentation of analysis and reports.

RESULTS

The model of the designs from both the teams qualified the preliminary rounds.

Team Details:
Team Name: Team Vyoma 1
Team Leader's Name: Glen D'Souza

Sl. No.	Team Member	College	Email	Contact No.	ID
1.	Glen D'Souza	RVCE	glenrshid.ace18@rvce.edu.in	+917349140948	11462
2.	Gowardhan K	RVCE	gowardhan8123609565@gmail.com	+918123609565	11464
3.	Arpan Mondal	RVCE	arpan1823@outlook.com	+919731662086	11465

■ Link: 3D LR and Pictures
<https://drive.google.com/drive/folders/1c2m4RtF71911D1kxer0jyknV9h01z?usp=sharing>

AERODES
Glen D'Souza
Gowardhan K
Arpan Mondal

Fuselage

- Length of fuselage: 345.35mm
- Diameter of fuselage: 172mm
- Payload diameter: 43mm
- Distance of leading edge of wing from propeller: 180mm
- Distance of leading edge of tail from propeller: 744mm

AEROTHON 2021



TECHKRITI'21

MARCH, 2021

CERTIFICATE

CERTIFICATE
of Participation
This is to certify that
Mr./Ms. ARPAN MONDAL
of R.V. College of Engineering _____ is hereby
recognized for his/her participation in Aerodes, Takeoff
conducted by Techkriti'21, the Annual Technical and Entrepreneurial
festival of IIT Kanpur.

Amitabh Bandyopadhyay
Festival Chairman

Suryansh Agrawal
Festival Coordinator



Dhruva



ध्रुवा

International Astronomy and Astrophysics Competition (IAAC) is another annual competition which is conducted to promote astrophysics. This competition is conducted for students ranging from high school to post graduate students with a keen interest in astronomy. Many members of our team had participated in the 2020 instalment of the competition and **Abhay H Kashyab**, one of our coveted team members, had reached the finale and grabbed second place in the challenge.



The silver honour presented to Abhay