

AERORGIT REPORT JULY 2022- DECEMBER 2022

The purpose of AeroRGIT, the SAE student chapter at Rajiv Gandhi Institute of Technology, is to enhance the knowledge base of its members who are Aeromodelling enthusiasts and to provide to its members access to SAE International programs and services globally, enabling them to practice world class standards in productivity and quality.

SAE International is a professional organization with over 138,000 members globally. Aside from its standardization efforts, SAE International also devotes resources to projects and programs in STEM education, professional certification, and collegiate design competitions.

SAEINDIA is a membership organization founded in 1994 and in 2003 SAEINDIA became an affiliate of SAE International. Today, the President of SAEINDIA is Dr. R.K. Malhotra and has a membership count of more than 40,000 members around India.

Website SAE INTERNATIONAL: http://www.sae.org

Website SAEINDIA: http://www.saeindia.org

Faculty Advisor for AeroRGIT: Dr. RAJESH V. KALE





LIST OF EVENTS AND WORKSHOPS CONDUCTED BY AERORGIT

SR NO.	EVENT NAME	DATE	SPEAKER/ANCHOR
1	Basic sessions on Aerodynamics and Aeronautics	10/08/2022	Mr. Vaibhav Kelkar & Mr Prathamesh Parab
2	Industrial expectations & career aspirations seminar	17/08/2022	Dr. P.C. Sehgal
3	Basic sessions on Wing Design	24/082022	Mr. Sahil Khatri & Mr. Prathamesh Parab
4	Basic sessions on Fuselage, empennage and landing gear	25/08/2022	Mr. Shubham Dixit & Mr. Aditya Wavale
5	World Space Week	4/10/2022 — 10/10/2022	-
5.1	Space week Day 1 (Inauguration & Open Rocket Workshop)	4/10/2022	Mr. Vivek Marde & Mr. Nikhil Thosar
5.2	Space week Day 2 (The Expert Talk)	05/10/2022	Mr. Devendra Patil
5.3	Space week Day 3 (Quiz Competition)	06/10/2022	Members of AeroRGIT
5.4	Space week Day 4 (Poster Making Competition)	07/10/2022	Members of AeroRGIT
5.5	Space week Day 5 (Nehru Planetarium Visit)	08/10/2022	Members of AeroRGIT
5.6	Space week Day 7 (Treasure Hunt)	10/10/2022	Members of AeroRGIT
6	SAEISS DDC 2023 WORKSHOP	16/12/2022 – 17/12/2022	Faculty/Co-ordinator of SAE INDIA

Basic Session on Aerodynamics and Planes.

Date: 10th August, 2022

Time: 12:00pm to 1:15pm

Speakers: Mr. Vaibhav Kelkar and Mr. Prathamesh Parab

AeroRGIT, an aero-modelling committee of MCT's Rajiv Gandhi Institute of Technology, recently conducted an open session about the basics of aerodynamics and planes. This event commenced exactly at 12:00pm on the 10th of August, and covered topics explaining the fundamentals of flying a plane and key aspects involved in the same.





Mr. Vaibhav Kelkar, the president of AeroRGIT, was the official speaker of this event. He began with the introduction of AeroRGIT committee, giving a glimpse about their journey so far. He did so with the help of a presentation. Visuals of the presentation really helped the students connect and understand about the objectives and the role of AeroRGIT.

After a brief introduction about the committee, the speaker set in motion the discussion on the topic of the day- 'Basics of Aerodynamics and Planes'. The explanation began with a question and this made the session more interactive. Along with the presentation, the diagrams on board and plane model used for demonstration made the session distinctive and fun. Topics such as parts of planes, four active forces on a plane and motions of a plane were covered. The speaker really made the concepts easy to understand.







After the explanation, there was a short summary video revising all the concepts covered in the session. After the video, Mr. Vaibhav conducted a short Q&A session. He randomly asked a few questions to the spectators present and cleared their doubts. Taking the session forward, Mr Prathamesh Parab, the Vice President of AeroRGIT, briefed everyone about the upcoming events and the process of joining AeroRGIT. He concluded the session around 1:15pm with a vote of thanks.

List of Attendees:

Name	Roll	Deprt/Div/	Name	Roll	Deprt/Div
	No	Year		No	Year
Akanksha Singh	327	SE-EXTC-B	Omkar Lande	325	SE-IT-B
Srishti Nayal	304	SE-EXTC-B	Krish Waghela	568	TE-EXTC-B
Sagar Mankar	339	SE-EXTC-A	Vinayak Ingavle	504	TE-INST-A
Om Kodamde	334	SE-EXTC-A	Aditya Sah	524	TE-INST-A
Chinmay Wadyekar	334	SE-EXTC-B	Aditya Wavale	569	TE-EXTC-B
Karan Tadonkar	331	SE-EXTC-B	Shivanand Vadre	727	BE-INST-A
Nilesh Yadav	339	SE-EXTC-B	Neil Samant	719	BE-INST-A
Harshvardhan Wagre	335	SE-EXTC-B	Mohammed Ammar Shaikh	518	ТЕ-МЕСН-В
Nisha Gupta	315	SE-IT-B	Abhishek Singh	522	ТЕ-МЕСН-В
Sanjana Yadav	369	SE-IT-B	Sai	525	TE-MECH-B
Tejas Sawant	354	SE-IT-B	Aditya Namdev	563	TE-MECH-B
Sharayu Nagre	334	SE-IT-B	Akbar Sayyad	516	ТЕ-МЕСН-В
Tejas Bhagat	503	ТЕ-МЕСН-В	Zakaur Shaikh	519	ТЕ-МЕСН-В
Fiza Shaikh	559	TE-MECH-A	Aakash Gonde	506	ТЕ-МЕСН-В
Zuhair Khan	520	TE-MECH-A	Rishab Singh	523	TE-MECH-B
Shams Chaugle	508	TE-MECH-A	Sahil Khatri	508	ТЕ-МЕСН-В
Shubham Dixit	512	TE-MECH-A	Aman Baddela	501	ТЕ-МЕСН-В
Hamza Ansari	501	TE-INST-A	Aman Shaikh	517	ТЕ-МЕСН-В

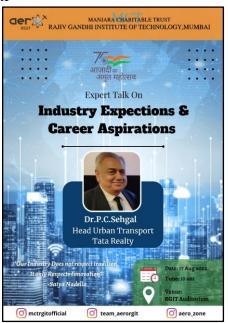
INDUSTRIAL EXPECTATIONS & CAREER ASPIRATIONS

Date: 17th August, 2022

Time: 10:00 am

Platform: Institute Auditorium

Speaker: Dr. P.C. Sehgal



MCT's Rajiv Gandhi Institute of Technology in collaboration with AeroRGIT committee, conducted an informative and educational seminar on 'Industrial Expectations & Career Aspirations'. The seminar commenced with a warm welcome speech by Dr. Kiran Chaudhary ma'am, HOD of Applied Science and Humanities. Later, she invited our principal, respected Dr. Sanjay U Bokade sir, who addressed the students and motivated them for the upcoming challenges and gave a brief introduction about the speaker and his remarkable achievements in Indian railways. To conclude his introductory fragment, he felicitated the speaker for his selfless service towards the society.

The speaker, Dr. P.C. Sehgal then took over the podium and initiated the seminar by putting forward a listicle to enlist the importance of being an engineer. Then he explained why India is lacking in R&D and how engineering aspirants can contribute towards its development.

He also discussed the '21 PRINCIPLES' that an engineer should follow in their life such as Problem Solving, Practical Knowledge, Teamwork, management and many more. He elaborated the 21 Principles that were gained during his working tenure at India Railways that could help the aspirants to tackle upcoming difficulties in their career.







Taking the seminar forward he discussed the importance of positive thinking which brings optimism into life and such constructive changes that can make any brighter and more successful. He guided students by sharing his experience and motivated them to have a positive and innovative mindset.





The speaker concluded_his segment by encouraging the attendees to be fearless innovative and passionate. Personal experience of the speaker will immensely help the attendees in their future expeditions. Eventually, Dr. Rajesh Kale, HOD of Mechanical Department concluded the seminar with a vote of thanks.

List of Attendees:

Name	Roll No	Year/Dept/Div	Name	Roll No	Year/Dept/Div
Aman Baddela	501	TE-MECH-B	Rohit Katke	543	ТЕ-МЕСН-В
Hrishikesh Bandgar	502	TE-MECH-B	Bhargav K	549	TE-MECH-B
Tejas Bhagat	503	TE-MECH-B	Saurabh Keluskar	550	TE-MECH-B
Chirag Chauhan	504	TE-MECH-B	Tejas Keni	551	TE-MECH-B
Manish Dube	505	TE-MECH-B	Yogesh Kolkundi	554	TE-MECH-B
Aakash Gonde	506	TE-MECH-B	Sonu Lad	556	TE-MECH-B
Pranay Katke	507	TE-MECH-B	Prity Nath	563	TE-MECH-B
Sahil Khatri	508	TE-MECH-B	Devendra Solanki	576	TE-MECH-B
Divya Madav	509	TE-MECH-B	Shantanu Naik	577	TE-MECH-B
Yash Madkaikar	510	TE-MECH-B	Mrunmesh Rikame	572	TE-MECH-B
Chintan Mahale	511	TE-MECH-B	Nirgun Pawar	558	TE-MECH-B
Rishab Maurya	512	TE-MECH-B	Ahir Riddhesh	701	BE-MECH-A
Mohit Sah	513	TE-MECH-B	Sardullah Ansari	703	BE-MECH-A
Akbar Sayyad	516	TE-MECH-B	Varad Bandwadekar	705	BE-MECH-A
Mohammad Ammar	518	TE-MECH-B	Mehul Barkul	707	BE-MECH-A
Zaka Shaikh	519	TE-MECH-B	Kaushal Bharambe	710	BE-MECH-A
Abhishek Singh	522	TE-MECH-B	Raj Desabe	714	BE-MECH-A
Rishabh Singh	523	TE-MECH-B	Siddhesh Deshmukh	715	BE-MECH-A

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Aditya Namadeva	527	TE-MECH-B	Siddhesh Diwate	716	BE-MECH-A	
Sayli Chowdhary	533	TE-MECH-B	Vikrant Dandale	717	BE-MECH-A	
Manas Darji	534	TE-MECH-B	Gaurav Gawde	720	BE-MECH-A	

Name	Roll No	Year/Dept/Div	Name	Roll No	Year/Dept/Div
Umang	723	BE-MECH-A	Prathamesh Parab	770	BE-MECH-A
Pranav Hare	725	BE-MECH-A	Omkar Rane	773	BE-MECH-A
Tushar Hinwar	726	BE-MECH-A	Aditya Salunkhe	774	BE-MECH-A
Shubham Jaddale	729	BE-MECH-A	Shubham Salvi	775	BE-MECH-A
Karan Jain	731	BE-MECH-A	Vaibhav Sanap	776	BE-MECH-A
Bhavesh Kamble	733	BE-MECH-A	Ayush Etam	537	BE-MECH-B
Vaibhav Kelkar	738	BE-MECH-A	Distant Gawane	721	BE-MECH-A
Pooja Kotharkar	741	BE-MECH-A	Sankhe Aditya Bipin	701	BE-MECH-B
Tanmay Kumawat	743	BE-MECH-A	Sapkal Omkar Ganesh	702	BE-MECH-B
Deep Mali	749	BE-MECH-A	Sasi Anukool	703	BE-MECH-B
Shilpa Maurya	750	BE-MECH-A	Savale Jay Santosh	704	BE-MECH-A
Abdul Maarji Momin	753	BE-MECH-A	Sayyad Aiyaz Hussain	705	BE-MECH-B
Nadar Jyosan	755	BE-MECH-A	Shaikh Mohammad Jafar	706	BE-MECH-B
Nadar Shanmug Rabir	756	BE-MECH-A	Shaji Anhas Kishore	707	BE-MECH-B
Rupesh Nair	757	BE-MECH-A	Shanbhag Vatsal Krishnanano	708	BE-MECH-B
Kaustubh	758	BE-MECH-A	Shinde Asmita Nilesh	709	BE-MECH-B
Loukika Neve	759	BE-MECH-A	Shintre Shubham	710	BE-MECH-B

Kaushal Nikam	760	BE-MECH-A	Shirke	711	BE-MECH-B
RadSilai Wikaiii	700	DE WILCHT A	Aakanksha	, 11	DE WIECH D
			Sanjay		
Kunal Padiyar	761	BE-MECH-A	Shirsikar	712	BE-MECH-B
•			Saurabh Santosh		
Patil Tanvesh	765	BE-MECH-A	Siddiqui Md	713	BE-MECH-B
Nitin			Sufiyan Abdur		
			Rab		
Pranay Pawar	768	BE-MECH-A	Thoke Pratik	714	BE-MECH-B
			Prabhakar		
Vaishnavi Pawar	769	BE-MECH-A	Vaidya Niyati	715	BE-MECH-B
			Abhijeet		
Warang Sumeet	717	BE-MECH-B	Yeole Harshal	718	BE-MECH-B
Nandkumar P		_	Chandrashekhp	_	_
Mokal Pradnesh	725	BE-MECH-B	Pillai Arun Babu	759	BE-MECH-B
Dinesh	726	DE MECH D	Calal as Dat Assi	760	DE MECLI D
More Ruhi Dilip	726	BE-MECH-B	Salekar Raj Aml	760	BE-MECH-B
Samant Meet	727	BE-MECH-B	Shetty Prajwal	761	BE-MECH-B
Prasad	121	BL-WILCH-B	Ravindra	701	DL-IVILCI I-D
Sawant Tejas	728	BE-MECH-B	Shikalgar Wasim	762	BE-MECH-B
Sudhir	720	DE WIEGIT B	Firoz	, 02	DE WIECIT B
Shinde Dipesh	729	BE-MECH-B	Wadle Mayur	763	BE-MECH-B
Suresh			Mayaram		
Thakur Ankit	730	BE-MECH-B	Aldar Ashish	764	BE-MECH-B
Jayesh			Ramchandra		
Bangera Shravan	731	BE-MECH-B	Hamdule	765	BE-MECH-B
Vinod			Mohammed		
			Wajeed M		
Dhamankar	732	BE-MECH-B	Lakhe Balasaheb	766	BE-MECH-B
Anushka Sandeep					
Mokal Pradnesh	733	BE-MECH-B	Trivedi Aman	767	BE-MECH-B
Dinesh	722	DE MECH D	Suresh	760	DE MECLI D
Diwadkar	733	BE-MECH-B	Vernekar	768	BE-MECH-B
Chaitanya Mahesh			Vedant Vishwajit		
Jadhav Pushkar	734	BE-MECH-B	Shirke Shruti	775	BE-MECH-B
Santosh	734	PL-IVILCIJ-D	Chandrashekhap	113	DL-IVILCI I-D
Jadhav Ruturaj	735	BE-MECH-B	Vichare Apurva	776	BE-MECH-B
Jyoti	, 33		Rajendra	,,,	22 1112011 0
Jalagaonkar	736	BE-MECH-B	Vinerkar Alisha	778	BE-MECH-B
Mohmmad Rafi P					
Kakde Prithvij	737	BE-MECH-B	Hatim Ezzi	714	BE-INST-A
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Karanjavkar Yash	738	BE-MECH-B	Shivanad Vadre	725	BE-INST-A
Ganesh					

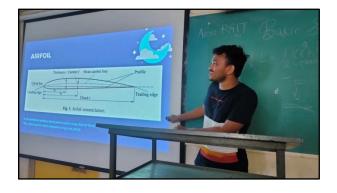
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Kolkondi Bhavna	739	BE-MECH-B	Ashutosh Sharma	709	BE-INST-A
Kailashpathp Kunchumuthu	740	BE-MECH-B	Ayushi Sighn	532	TE-INST-A
Arun	740	BE-IVIECH-B	Ayusiii Sigiiii	552	TE-INST-A
Makarani Faisal Amir	741	BE-MECH-B	Hamza Ansari	501	TE-INST-A
Mestri Abhijit Vijay	742	ВЕ-МЕСН-В	Vinayak Ingavle	504	TE-INST-A
Potul Sudarshan Ramkishan P	743	ВЕ-МЕСН-В	Rohini Sargar	526	TE-INST-A
Raikar Darshan Abhay	744	BE-MECH-B	Darshan Kumbhar	509	TE-INST-A
Rathod Gaurang Vinod	745	ВЕ-МЕСН-В	Pranav Sawant	529	TE-INST-A
Temkar Tejal Chandramohan	746	BE-MECH-B	Sagar Raut	523	TE-INST-A
Thosar Nikhil Dinesh	747	BE-MECH-B	Aditya Sah	524	TE-INST-A
Bhalerao Aryan Sandip	748	BE-MECH-B	Aditya Wavale	569	TE-EXTC-A
Jain Yash Dinesh	749	BE-MECH-B	Shubham Dixit	546	TE-MECH-A
Kadam Ajinkya Sanjay	750	BE-MECH-B	Neha Nanche	752	BE-IT-A
Kadam Kalpesh Santosh	751	BE-MECH-B	Gaurav Jain	721	BE-IT-B
Kadam Sanket Dhanyakumar P	752	BE-MECH-B	Yash Mestry	741	BE-EXTC-A
Khan Yunus Nasir	753	BE-MECH-B	Vaidya Yashesh Ketan	565	TE-EXTC-B
Ahire Swaraj Rajendra	501	TE-EXTC-A	Vardhan Yash Sanjay	566	TE-EXTC-B
Ambekar Shikha Satish	502	TE-EXTC-A	Vishwakarma Vikas Santosh	567	TE-EXTC-B
Anbhule Ankita Sanjay	503	TE-EXTC-A	Wagh Jay Sunil	568	TE-EXTC-B
Ayre Aniket Chandrakant	504	TE-EXTC-A	Waghela Krish Dharmesh	569	TE-EXTC-B
Banduk Dwij Sharad	505	TE-EXTC-A	Wavale Aditya Bhushan	570	TE-EXTC-B
Bari Risha Vilas	506	TE-EXTC-A	Yadate Ashlesha T	571	TE-EXTC-B
Bhoir Ankit Sachin	507	TE-EXTC-A	Yadav Amit Ajaynarayan	572	TE-EXTC-B
Chaudhary	508	TE-EXTC-A	Yash Sonawane	573	TE-EXTC-B

Basic Session on Wing Design

Date: 24th August, 2022 **Time:** 4:00pm to 4:35pm

Speakers: Mr. Prathamesh Parab and Mr. Sahil Khatri

AeroRGIT, an aero-modelling committee of MCT's Rajiv Gandhi Institute of Technology, recently conducted a member's only session which was the continuation of the first open session, the seminar was about the basics of Wing Design. This event commenced exactly at 4:00pm on the 24th of August, and covered topics explaining the fundamentals of wing design and key aspects involved in the same. Mr. Vaibhav Kelkar, the President of AeroRGIT, began the event with a revision and quiz based on previous session. He also cleared all the doubts that students had regarding the session.





Then Mr. Prathamesh Parab, the vice-president of AeroRGIT, started to explain the members about the basics of wing design. The session was interactive which made it more fun as there were a huge variety of questions that arouse and answered. The speaker helped us to understand concepts better by using diagrams, presentation and the questions. Topics such as basic of wing design and why some planes use certain types of wings. Real time questions were given by the speaker to help us understand the concept better and he also gave topics to do research on our own.







Then taking the session forward, Mr. Sahil Khatri, the event manager of the committee, briefed everyone about Types of Angles and Types of Planforms. He covered the basics of Type of angle and why that type of angle is used in particular kinds of planes. After the explanation, there was a short summary video revising all the conceptscovered in the session. After the video, Mr. Prathamesh Parab conducted a short Q&A session. He randomly asked a few questions to the students present and cleared their doubts. The session was concluded around 4:35pm with a vote of thanks.

MANJARA CHARITABLE TRUST RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI List of Attendees:

Sr No.	Name of Students	Year	Sr No.	Name of Students	Year
1	Sanika Sandaye	SE	14	Shams Chaugle	TE
2	Harshada Patil	SE	15	Rishika jain	TE
3	Luvkumar Bura	SE	16	Shubham Dixit	TE
4	Nisha Gupta	SE	17	Sahil Khatri	TE
5	Sanjana Yadav	SE	18	Aditya Wavale	TE
6	Sharayu Nagre	SE	19	Anish Sandaye	TE
7	Yash Pednekar	SE	20	Hrishikesh Bandgar	TE
8	Nilesh Yadav	SE	21	Krish Waghela	TE
9	Ayush Changra	SE	22	Tejas Pawar	TE
10	Saudamini Katkar	SE	23	Aakash Gonde	TE
11	Aashil Umralia	SE	24	Aditya Sah	TE
12	Manas Darji	TE	25	Vinayak Ingavle	TE
13	Aditya Namadeva	TE	26	Shivanand Vedre	BE

Basic Session on Fuselage, Empennage and Landing Gear

Date: 25th August, 2022 **Time:** 4:00pm to 4:35pm

Speakers: Mr. Shubham Dixit and Mr. Aditya Wavale

AeroRGIT, an aero-modelling committee of MCT's Rajiv Gandhi Institute of Technology, recently conducted a member's only session which was the continuation of the first two sessions, the seminar was about the basics of Fuselage, Empennage and Landing Gear of an airplane. This event commenced exactly at 4:00pm on the 25th of August, and covered topics explaining the fundamentals of Fuselage and empennage design. Mr. Vaibhav Kelkar, the President of AeroRGIT, began the event with a revision and quiz based on previous session. He also cleared all the doubts that students had regarding the session.





Then Mr. Aditya Wavale, started to explain the members about the basics of Fuselage design. The session was interactive which made it more fun as there were a huge variety of questions that arouse and were answered. The speaker helped the audience to understand concepts better by using diagrams, presentation and the questions. Topics such as basic of Fuselage design and why some planes use certain types of fuselages. Real time questions were given by the speaker to help us understand the concept better and he also gave topics to do research on our own.





Then taking the session forward, Mr. Shubham Dixit, the Operational Head of the committee, briefed everyone about Empennage and its various parts. He covered the basics of Tail of a plane with their types and why that type of tail is used in particular kinds of planes. Shape of the airfoil in tail, its dimensioning, and concept of taper and aspect ratio was also explained by the speaker. Later continuing with further topic speaker gave a brief gist about the basics concepts of the Landing Gears, its types, its efficiency and their applications. After the explanation, there was a short summary video revising all the conceptscovered in the session. After the video, Mr. Shubham Dixit conducted a short Q&A session. He randomly asked a few questions to the students present and cleared their doubts. The session was concluded around 4:35pm with a vote of thanks.

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List of Attendees:

Sr No.	Name of Students	Year	Sr No.	Name of Students	Year
1	Sanika Sandaye	SE	14	Shams Chaugle	TE
2	Harshada Patil	SE	15	Rishika jain	TE
3	Luvkumar Bura	SE	16	Shubham Dixit	TE
4	Nisha Gupta	SE	17	Sahil Khatri	TE
5	Sanjana Yadav	SE	18	Aditya Wavale	TE
6	Sharayu Nagre	SE	19	Anish Sandaye	TE
7	Yash Pednekar	SE	20	Hrishikesh Bandgar	TE
8	Nilesh Yadav	SE	21	Krish Waghela	TE
9	Ayush Changra	SE	22	Tejas Pawar	TE
10	Saudamini Katkar	SE	23	Aakash Gonde	TE
11	Aashil Umralia	SE	24	Aditya Sah	TE
12	Manas Darji	TE	25	Vinayak Ingavle	TE
13	Aditya Namadeva	TE	26	Shivanand Vedre	BE

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DEPARTMENT OF MECHANICAL ENGINEERING
(NBA-Accredited UG Program)

WORLD SPACE WEEK

Day 1: Inauguration ceremony of World Space Week.

Date: 4th October,2022

Time: 9:15am to

10:15am

Hosts:

Mr. Aditya Wavale and

Ms. Nisha Gupta.

World Space Week is an international celebration of science and technology, and their contribution to the betterment of the human condition. The United Nations General Assembly declared in 1999 that World Space Week will be held each year from 4th to 10th of October

AeroRGIT, recently hosted World Space Week. The inauguration of the event took place on 4th October, 2022 at 9:15am in the institute seminar hall.

The event started with *Sarasvati Vandanam* by the respected chief guest and the dignitaries. Proceeding this amazing *Vandanam*, there was introduction and felicitation of honorable chief guest, Mr. Vivek Marde, the director of Space HVAC Pvt Ltd, and the respected dignitaries by our respected Principal sir. The event was then declared open after the ribbon cutting ceremony.



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The hosts of the event Mr. Aditya Wavale and Ms. Nisha Gupta further gave a brief introduction about the committee, highlighting the journey and some of the achievements of the committee.



After this, the hosts handed the dice over to Mr. Vaibhav Kelkar, President of AeroRGIT, who introduced the idea of Space Week and its event flow. Giving a glimpse of promotional posters of each event, he encouraged the audience to take part in every event. Subsequently expressing his immense gratitude towards faculty coordinator of AeroRGIT, Mr. Vaibhav invited Dr. Rajesh Kale sir on the dice to share his views with the spectators. Acknowledging the work of the team, the professor spoke about his experience with AeroRGIT. Moving ahead the hosts, then welcomed respected Principal Dr. Sanjay Bokarde sir, to give his guidance and share his point of view with the students. He talked about the importance of participating in such activities. He concluded his talk giving best wishes to the students organizing the space week. Further the hosts invited honorable chief guest, Mr. Vivek Marde on the dice to share his experience and knowledge with the attendees. Mr. Vivek spoke about his journey and guided the student by sharing his personal life experiences. Thanking the chief guest, the host then further invited Mr. Prathamesh Parab, Vice President of AeroRGIT to conclude the event by giving a vote of thanks. He thanked the

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dignitaries and attendees. The inauguration then came to an end by 10:10am.

DAY 1: Open Rocket Workshop

Time: 3pm to 4:15pm

Hosts: Mr. Nikhil

Thosar.

After a successful inauguration, the space week's first event was conducted on the same day by speaker and trainer, Mr. Nikhil Thosar. Nikhil Thosar is the lead cum treasurer of AeroRGIT. As already mentioned in the report, AeroRGIT is an aeromodelling committee of Rajiv Gandhi Institute of Technology, that is keen to explore about the space and technology related to aerodynamic. Following these objectives, AeroRGIT conducted its first event which was a 'Rocket designing workshop'.



The workshop was focused on the creation of a software-based rocket stimulation. The participants were taught and given the opportunity to work on a hands-on project using the software Open Rocket Stimulator.

The workshop started with a basic introduction of some of the important terminologies such as Apogee, center of pressure and went over the basic parts

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of a rocket such as the body tubes, nose cones. Nikhil also explained the functions of these parts in detail and was always to solve the arising queries.

It was an interactive session.

After the introduction and explanation of these technical terms, Nikhil went on to explain the working of the software and their basic shape profiles. He also elaborated on the role of the shape profiles and the order of placing them. He even explained about the recovery mechanism in case of the occurrence of an error.

Participants were then encouraged to design a rocket after explaining about design of a rocket, the use of tube coupler, fins and tube fins. Nikhil was always ready to solve any emerging doubts. Some of the Aero team members even helped him by solving doubts for him.

However, this wasn't the end. Nikhil re-emphasized on the design while explaining the transitions and how to use them. There was another rocket model and some more doubt solving.



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The session ended with the announcement of a competition in which students were asked to create their own rocket model. The rules were also explained to the participants.

Two days after the competition, the winners were announced.

Winners Of Open Rocket workshop:

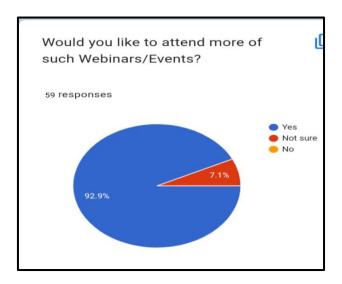






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Feedback:



Day 2: The Expert Talk.

DATE: 5th October 2021

TIME: 11:00 AM - 1:00 PM

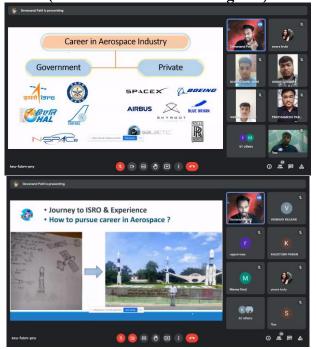
PLATFORM: Google Meet

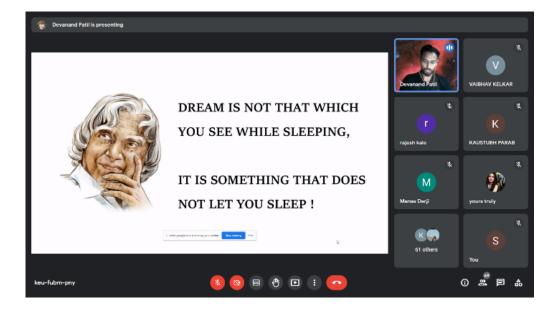
SPEAKER: Mr. Devanand Patil (Junior scientist at ISRO & Alumni of RGIT)

On day 2, a webinar was conducted by Team AeroRGIT in collaboration with the chief guest and also the Alumni speaker Mr. Devanand Patil. The webinar commenced with a welcome speech for the audience by Team AeroRGIT's president Mr. Vaibhav Kelkar. Later the H.O.D (Mechanical department) & convenor of the committee Dr. Rajesh V. Kale extended his warm welcome to the chief guest and invited him to share his valuable journey and knowledge with the audience.

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The speaker began by sharing an inspirational quote by Dr. APJ Abdul Kalam which says, "A Dream is not that which you see while sleeping, it is something

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that does not let you sleep". Further the speaker gave a glimpse of the topics that he would talk on the day which included different phases of his life and its hurdles, his journey to the ISRO and how to pursue career in Aerospace.

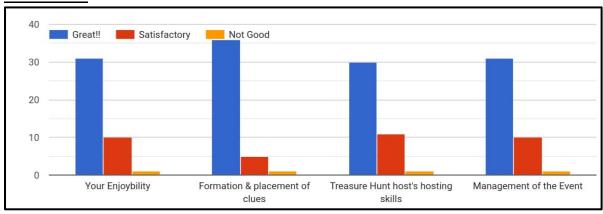
Beginning with the session the speaker gave a brief and inspirational story of his life from growing up in a small town of Maharashtra then cracking up the ISRO entrance exam with merit and finally landing up to an honorable designation at ISRO. Mr. Devanand Patil shared his experience and also the work culture and space at ISRO. He also gave a summarized and valuable information on the different aspects of Aerospace technology and industry.



The speaker concluded his presentation by thanking the audience and opened the QnA session for everyone. The QnA session was icing on the cake as it came up with really curious and interesting questions from the audience which were answered by the expert.

The webinar met a conclusion with a vote of thanks and regards from the committee vice-president Prathamesh Parab.

Feedback:



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DAY3: QUIZ COMPETITION

Date: 6th October 2022

Time: 12:30 PM to 3:00 PM **Event Head:** Aditya Wavale

The third day, 6th of October, we had a quiz competition about basic aptitude and space Research. It was one of our most anticipated events that got a huge student response. It stretched from 12:30 PM till 3:00 PM. This quiz competition was divided into two rounds. First round comprised of aptitude and intelligence related technical questions. It was a pen and paper round. Total 23 teams participated in it. Most of the students who participated in the quiz competition were from mechanical and information technology branch. For a fairer event, three sets of same question were prepared- Set A, Set B and Set C. These sets were distributed such that no two adjacent teams got the same order of question. Total time of 15minutes was allocated to the students to solve the questions. Exactly, after 15 minutes the AeroRGIT's event management team collected the papers. At this very moment, Aditya Wavle announced a recess of 20 minutes. During the intermission, the event head and the event management team graded the quiz papers. After the first round, total 7 teams qualified for the second round. This was the final round of the quiz competition. It was a question-and-answer round. Each team got a question. The team that answered got a point. If the team was unable to answer, others got the chance. We had two teams who ended up with the same score. This led to an additional buzzer round. Mr. Shubham Shintre and Ms. Saurabhi Shirsikar's team won this round. The event was concluded by a picture with the winners and with the prize distribution ceremony.

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List Of Participants:

Name	Year and Branch	Name	Year and Branch
Shubham Shintre	BE Mechanical	Aditya Salunkhe	BE Mechanical
Saurabh Shirsikar	BE Mechanical	Mahesh Salunkhe	BE Mechanical
Sanjana Yadav	SE IT	Omkar Rane	BE Mechanical
Omkar Para	BE Mechanical	Sahil Dhamane	SE Mechanical
Saudamini Katkar	SE Mechanical	Shubham Dixit	TE Mechanical
Tejas Pawar	TE Comps	Rituja Kotangale	TE Mechanical
Rishika Jain	TE IT	Anish Sandaye	TE EXTC
Aditya Sah	TE INSTRU	Sushant Ghurup	TE Mechanical
Manish Dubey	TE Mechanical	Kunal Kamtekar	BE Mechanical
Sharayu Nagre	SE IT	Balasaheb Jadhav	BE Mechanical
Siddhesh Wayal	SE IT	Omkar Keer	BE Mechanical
Hrishikesh Panhalekar	SE IT	Jayesh Ghagare	BE Mechanical
Omkar Lande	SE IT	Tejas Sawant	SE IT
Yash Pednekar	SE EXTC	Pradeep Pal	SE IT
Sayali Pednekar	SE EXTC	Harshal Pawar	SE IT
Hrishikesh Bandgar	TE Mechanical	Kaustubh Mayekar	SE IT

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Pranay Katke	TE Mechanical	Prathamesh Rajaram	SE IT
Harsh Vishwakarma	SE IT	Kishore	BE Mechanical
Rohit Thakur	SE Mechanical	Nisha Gupta	SE IT
Mohit Kumar	SE Mechanical	Nilesh Yadav	SE EXTC
Prasanna Lad	BE Mechanical	Chinmay Wadekar	SE EXTC
Prity Nath	TE Mechanical	Aditya Namdeva	TE Mechanical

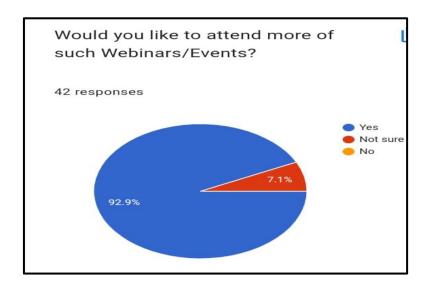
Winners: Shubham Shindre and Saurabh Shirsikar.





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Feedback:



Day4: Poster Making Competition.

Date: 7th October

2022 **Time:** Till 3:30

pm

Judge: Sonali Jadhav (Fine Arts)

On the 7th of October, which was the 4th day, AeroRGIT conducted an amazing poster making. The theme for the competition was "Your Imagination of space". The competition was held to find the great talent of drawing that lies in the heart of every Engineering student. This event gave the students a chance to present their perspective about space through their creativity. The judge cum host Sonali Jadhav (Fine Arts Teacher) started the competition by briefing the participants about the rules of the competition. These rules stated that lucid, handmade and digital posters were allowed. She also suggested the participants to use Canva as it's quite user-friendly. This competition was conducted on the 7th of October and the participants could submit their poster both via online and offline modes.

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In this era of digitalization, online submission boosted the number of participations.

The participants were given time till 3:30pm to submit their work. After all submissions were completed, the judge thoroughly analyses all the pieces and announced the winners. These winners were awarded with certificates. However, this wasn't the end of the session. The session still had Sonali mam's speech where she spoke about art and creativity turning into reality. She emphasized on the power of imagination and highlighted the fact that the ones willing to work hard can make this imagination a reality. This session came to an end with a vote of thanks. The AeroRGIT team members thanked the judge Ms. Sonali and concluded the session.

Winners:







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The prize winner for Handmade Poster was: Anushka Dhamankar of B.E., Mechanical of Rajiv Gandhi Institute of Technology.

The prize winner for Digital Poster was: Shubham Shintre of B.E, Mechanical of Rajiv Gandhi Institute of Technology.

Apart from the Winner there were also some honourable mentions:

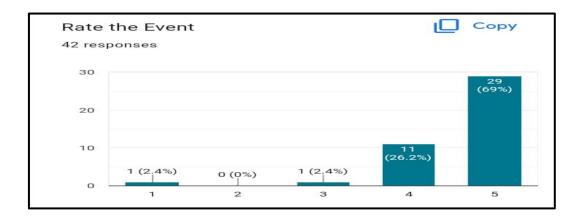
- 1. Yash Karanjavkar for Handmade poster
- 2. Sushant Ghurup for Digital poster

List of Participants:

Name	Year	Branch
Sushant Ghurup	T.E.	MECH
Neha Tukaram Shigvan	T.E.	EXTC
Shubham Shintre	B.E.	MECH
Yash Karanjavkar	B.E.	MECH
Sanaullah Ziyaullah Ansari	B.E.	MECH
Aayushi Singh	Graduate	B.A
Ranjit Bajirao Handore	B.E.	EXTC
Omkar Keer	B.E.	MECH
Richa Sapre	T.E.	IT
Om Sharma	F.E.	Medical
Pratik Inderkumar Dave	T.E.	IT
Aayushi Singh	Graduate	BA
MOHIT SAH	T.E.	MECH
Anushka Sandeep Dhamankar	B.E.	MECH
Riddhi Shinde	B.E.	IT

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Day5: Nehru Planetarium Visit

Location: Nehru Planetarium

Time: 12pm to 5pm.

Hosts: Mr. Vaibhav Kelkar and Mr. Prathamesh Parab

Continuing the celebration of the international space week, the committee planned a trip to the Nehru planetarium on the 8th of October, which was a Saturday. This visit involved a lot of locations around Nehru planetarium and was filled with Space exploration and learning.

The trip started exactly at 12pm. All the students interested in the trip were asked to gather around the Nehru science center near the planetarium. The team members and hosts then led everyone inside the center. The students explored a bit and then, went for a movie inside the Science center. This movie was actually a documentary called "Journey to Space" and it was about an unveiling of a new era in space exploration.

The movie ended around 2:30pm. After the movie, there was some time for another visit to the Nehru science center. Everyone explored the amazing monuments and enjoyed the scenery.

After a while, everyone went for lunch. Lunch was organized by the AeroRGIT team. Once lunch ended, everyone headed towards the Nehru planetarium. We reached the planetarium by 3:15pm and watched another movie about stars and constellations. This movie related a lot of aspects of our live such as our zodiac signs, the weather of the day, sunrise and sunset. It was one of the best movies that was both instructive and entertaining at the same time.

The movie got over around 4:30pm and we again headed back to the museum. In the museum, Mr. Vaibhav started talking about Mr. Nehru's life, his history and achievements followed by the Indian history. Later, everyone headed towards the art gallery where they got to see amazing pictures of our deity lord Krishna. There were many other beautiful pictures in that room. There were painting from Mughal period, worli paintings, monuments made by craftsman, etc.

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This visit unfortunately came to an end. It was concluded with a beautiful group picture.

List of Participants:

Name	Branch and Year.
Shivanand Vedre	Instrumentation,BE
Abhishek Singh	TE Mech
Ved Bhandare	Extc Final Year
Udita Pendse	FYBSc
Krish Waghela	Extc T.E
Anish Arun Sandaye	TE EXTC
Sakshi Lakhan Pramanick	FYBSc
Sakshi Matale	Fybsc
Khan Zunaira	Jai Hind College (FYBSc)
Prathamesh Parab	Mech BE
Ishaan S. Kulkarni	EXTC Final Year
Vaibhav Kelkar	Mechanical 4th year
Soham Sandip Sawant	Fy. Bsc. A
Ayush Changra	EXTC-SE
Shams chaugle	TE Mechanical
Rishika Jain	TE IT
MANTHAN SACHIN NYAYNIT	INSTRU TE
Hamza Ansari	Instru 2022-23
Aditya Wavale	Extc te

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Sah Aditya Anil	TE Instru
Nikhil Thosar	Mech BE
Tejas Pawar	Comps TE
Siddhesh Deshmukh	BE Mechanical
Vinayak Ingavle	TE INSTRUMENTATION
Mahek Nanani	Churchagte , 2022
Sahil Dhamane	SE Mechanical
Pooja sharad kotharkar	Mechanical engineering final year
Vaishnavi Pawar	Mechanical (B.E.) 4th Year
Saudamini Katkar	SE Mechanical
Esha	SE Mechanical
Omkar Keer	BE Mechanical
Sanjana Yadav	SE-IT
Anusha Sunilkumar	BE Computer
Yojana Tulsidas Loke	SSC 10th
Buvani Pai	B.E. Computer
Kunal Padiyar	Mechanical BE
Ritesh khurana	3rd Comps
Vaibhav Gorakshanath Sanap	Mech(be)
Nilesh Yadav	SE EXTC
DEVANG Jadhav	Mechanical SE
Abhishek Nair	3yr Instrumentation
Kaustubh Mhatre	SE mechanical
Pranav patil	Mechanical (2022)

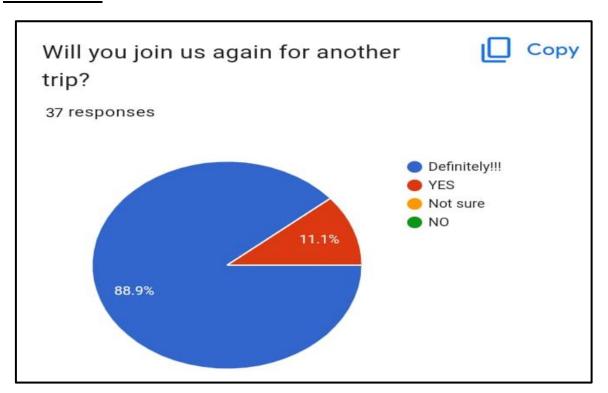
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(1,211,11001041	ica e e i rogram)
Ameet Mishra	SE IT
Preet Mhatre	SE IT
Kiran Sahu	SE IT
Yatish Raut	SE-IT
Ruchitha Swamy Gowda	SE IT
Prasanna Lad	Mechanical SE
Sabquat jareer	IT second year
Pankaj suthar	EXTC/3
Rohini Sargar	TE INSTRU
Pranay Pawar	Mechanical (BE)
Pranav Deepak Sawant	T.E. Instru
Aditya Mahesh Salunkhe	MECHANICAL BE



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Feedback:



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Day 7: Treasure Hunt.

Location: College ground

Hosts: Sahil Khatri and Shubham Dixit

Time:10am to 4pm

Time did fly in the blink of an eye. The last day of the Space week approached. It being the last day, had a very special event planned. The event planned was a 'Treasure hunt'. This treasure hunt was hosted and conducted by Sahil Khatri and Shubham Dixit.

This treasure hunt included multiple stages and a total of 16 teams participated in it

It began exactly at 10am where Shubham and Sahil called all the teams and briefed them about the rules of the hunt. The whole hunt was divided into 3 stages.

After the first round or stage only six teams qualified to the 2nd round.

In the second, round two teams got eliminated and 4 made it to the finals. Out of these 4 teams, only two teams won the 1st place and the 1st runner-up.

The event comprised of various crafty hurdle and levels planned and organized by the think tank of the committee which consisted of RGIT's alumni, AERO's chairperson, Mr. Prathamesh Parab & the current president, Mr. Vaibhav Kelkar.

Anyone and everyone were allowed to participate in the event. It was even open for teachers. It has become AeroRGIT's tradition too conduct this treasure hunt. It is one of AeroRGIT's most famous non-technical event.

The event was a grand success like every year as it brought out many sweet & cherishable moments of those young, aspiring engineers who only spend most of their time in academics or brushing-up technical skills inside the labs & classrooms.

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List of Participants:

Name	Stream/Course	Academic year
Abhishek Singh	MECH	TE
PARAG PRAKASH CHOUKEKAR	EXTC	TE
Shivanand Vedre	OTHERS	BE
Shubham Shintre	MECH	BE
Harshit Madia	EXTC	BE
Shams chaugle	MECH	TE
Vaibhavi Bhave	EXTC	BE
Kaustubh parab	EXTC	TE
ADITYA NAMADEVA	MECH	TE
Sakshi	EXTC	BE
Priyanshu Sharma	MECH	TE
Hrishikesh Bandgar	MECH	TE
Gaurav Jain	IT	BE
Shivam shukla	COMPS	TE
Robins	MECH	BE

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Winners of the treasure hunt:



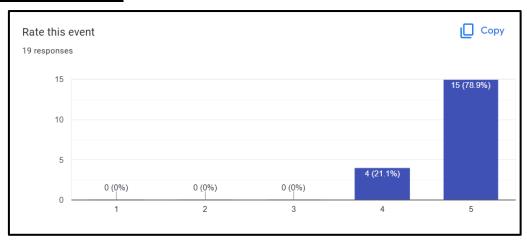






With the end of Treasure hunt, we come to the end of our Space week celebration.

Feedback Received:



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SAE INDIA DDC WORKSHOP

Date: 16th to 17th January 2022

Time: 8:30 am - 5:30 pm

Venue: B.S. Abdur Rahman Crescent Institute of

Technology





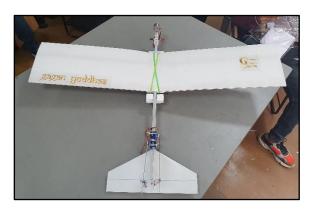
AeroRGIT's Teams, Team Gagan Yoddhas and Team Vaman, are the two aeromodelling teams of MCT'S Rajiv Gandhi Institute of Technology, Mumbai-53, comprising of enthusiastic team members participated in two-days' workshop conducted by SAE INDIA DRONE DESIGN CHALLENGE 2023, held at Vellore Institute of Technology, Chennai 600 127 from 16th January 2022 to 17th January 2022. This competition and workshop tests the student teams in terms of analytical thinking, designing and manufacturing of RC aircraft depending on the given problem statement. The main purpose of this workshop was to educate the student teams regarding the manufacturing process of an RC aircraft. It was a two days intense affair in Chennai with following schedule of activities:

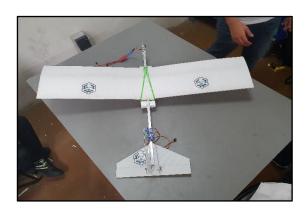
16TH January **2022** (Day 1):

On the first day of the workshop both the teams were asked to report at the venue at 8:30 am. for the registration of the teams in the workshop. Once every team was assembled the registration process began to officially enrol the teams present. Then, at 10:30 am, the inauguration ceremony commenced, where a brief introduction of the workshop was stated. Once the ceremony concluded, teams were provided with morning snacks to refresh them for a long day of work. At 12pm basic session of aerodynamic began which introduced all the members with various components required to build and analyse a RC aircraft. All the basic fundamentals of aerodynamics were covered in this session.

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After the lunch break at 2:00 p.m. Teams began their manufacturing process with the kits provided by SAE team. By the end of the day i.e., 5pm all the teams were prepared with their ready to fly coroplast models with all the avionics properly installed.





17TH January 2022 (Day 2):

On the second and Final day of the workshop, all the teams present were divided in two batches for separate activities. Batch 1 consisting of Team Vaman, were called for flight test where in a final inspection was done of the modelled aircraft and then it was ready to fly. Team Vaman's model took flight in an astonishing fashion. Meanwhile, Team Gagan Yoddhas's members were engaged in flight simulator testing. In the second half of the day after the lunch break, Team Gagan Yoddhas was called for the flight test were in the model took off in its maiden flight with all control surfaces working perfectly. Simultaneously Team Vaman had their experience with flight simulator software. At the end of the day, the workshop concluded with a closing ceremony where a brief revision regarding the both days of work shop was done and after that all the teams departed to their respective cities.

