



DEPARTMENT OF AERONAUTICAL ENGINEERING

Event Report (AY2024-2025)

Name of the Event	: Skill Development Program on UAV Design and Development
Date & Time	: 09/12/2024 & 10/12/2024
Place	: AE Seminar Hall
Resource Person	: Ozhli Academy of Science, Bengaluru
No of Student Participants	: 43
Event Coordinators	: Mr.Ganesh & Mr.Sarathkumar S

About the Event:

The Department of Aeronautical Engineering in Associate with Aeronautical Skill Sector Council (ASSC) successfully organized a two-day Skill Development Program on UAV Design and Development on 9th and 10th December 2024 at the AE Seminar Hall. The program was conducted in collaboration with Ozhli Academy of Science, Bengaluru, a reputed organization specializing in aerospace training and technology.

The program aimed to provide students with hands-on exposure and practical insights into the fundamentals of Unmanned Aerial Vehicle (UAV) design, fabrication, and flight principles. A total of 43 students from the department enthusiastically participated in the event. Experts Mr.Bharani and Ms.Shalini from Ozhli Academy delivered comprehensive sessions on UAV aerodynamics, structural design, propulsion systems, control mechanisms, and integration of onboard systems. The resource team also guided students through simulation exercises and design tools commonly used in UAV development.

Interactive workshops allowed students to work in teams to conceptualize, model, and test their own UAV prototypes. This practical approach enabled them to apply theoretical knowledge to real-world applications, enhancing their technical and problem-solving skills.

Campus

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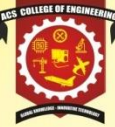
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The second day featured flight demonstrations and performance analysis, giving students an opportunity to observe UAV dynamics in action and understand key parameters affecting flight stability and efficiency.

The program concluded with a feedback session where students expressed their appreciation for the practical knowledge gained. The department thanked the team from Ozhli Academy for delivering a highly engaging and educational experience. The event was a significant step towards nurturing innovation and technical expertise in the field of aeronautics. The event was a great success and added significant value to the academic enrichment of the students.

Event Poster:



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B.A. LLB, FIMSA, FRCPS (Glasgow, UK)
Founder Chancellor & Chairman
RajaRajeswari Group of Institutions

Two Days Student Skill Development Program On

UAV Design and Development using a Multi Physics Simulation Platform

In association with





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Special Officer, RRG I

Dr.S.Usha
Vice Principal, ACSCE

Dr. G.Ramanan
HOD, Dept. of Aeronautical Engg.

Date: 9th - 10th Dec 2024 Time: 9:00AM - 4:00PM Venue: 4th floor, Seminar Hall

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Workshop Schedule & Topics



MAVIC - Drone Training Workshop

The Drone Training Workshop is a hands-on program designed to teach students the development, assembly, and operation of unmanned aerial vehicles (UAVs). The workshop spans two days and is divided into six sessions, covering fundamental concepts to real-world applications like flight simulations and live drone testing.

Each student will engage in both theoretical lessons and practical activities, ensuring a comprehensive learning experience.

Detailed Breakdown of Sessions

Sl No.	Session Name	Description
1	The Fundamentals	Learn the fundamentals of drones, their working principles, aerodynamics, and practical applications.
2	Drone Design Configurations	Understand various drone configurations (H-type, V-tail, Palm), components, and their selection process.
3	Assembly & Mission Planning	Plan the assembly process using EBOM & MBOM and understand mission planning and drone operation essentials.
4	Building H-Type Drone	Hands-on assembly of an H-type drone and performing flight simulations for stability and control.
5	Building V-Tail Drone	Assembly of a V-tail drone, with flight simulation focusing on navigation and mission-specific stability.
6	Building & Testing Palm Drone	Build a compact palm drone and test it through real-world flight scenarios and troubleshooting.

Course Outcome

Students will:

- Gain an in-depth understanding of UAV principles and components.
- Learn to design and build different types of drones.
- Develop skills in mission planning, safety, and drone maintenance.
- Engage in virtual flight simulations and live drone testing.
- Acquire industry-relevant skills for working with UAVs.

The course is structured to balance theoretical concepts with hands-on activities. This approach enables students to retain and apply knowledge effectively. The training emphasizes gamified learning to make the process engaging and interactive.

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Event Certificate



Ozhli
Academy of Science



Certificate of Participation

To Whom It May Concern:

This is to certify that **Kavya Shree T A**, a student of B.E. (Aeronautical Engineering) at ACS College of Engineering, Bengaluru, has successfully completed two days hands-on workshop titled "**MAVIC - A Drone Training Workshop**" organized by **Ozhli Academy of Science** from December 9, 2024, to December 10, 2024.

During the workshop, Kavya gained practical experience in:

- **Drone Assembly & Dismantling:** Hands-on experience in assembling, dismantling, and understanding drone components.
- **Drone Selection Process:** Learned to select drones based on mission needs, payload, and environmental factors.
- **Mission Planning:** Developed skills in route mapping, safety protocols, and efficient mission execution.
- **Simulated Flight Training:** Mastered drone controls and navigation through simulated flight exercises.
- **Indoor Flying:** Demonstrated precision and stability in controlled indoor drone flights.

Congratulations on completing the session, Kavya! We wish you continued success in your academic and professional endeavours.

Sincerely,

[BHARANI SHANKAR D]
CEO, Ozhli Academy of Science



Ozhli Academy of Science

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Bengaluru, Karnataka 560008
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Event Pictures



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Event Coordinators

Mr.Sarathkumar & Mr.Ganesh R

Head of the Department
Aeronautical Engineering
ACS College of Engineering
Mysore Road, Kambipura
Bangalore-560074

HOD

Dr.G.Ramanan

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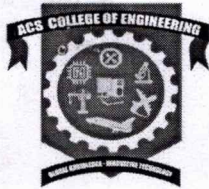
ACS COLLEGE OF ENGINEERING
AERONAUTICAL ENGINEERING

Skill Development Program-UAV Design and Development using a multi Physics platform

SESSION ATTENDANCE SHEET

Sl.no	USN	NAME	09/12/2024 (FN)	09/12/2024 (AN)	10/12/2024 (FN)	10/12/2024 (AN)
1	1AH18AE021	KAVYASHREE T A	Kavya	Kavya	Kavya	Kavya
2	1AH22AE002	ADARSH C	Adarsh C	Adarsh C	Adarsh C	Adarsh C
3	1AH22AE003	ANKUSH KULKARNI	Ankush	Ankush	Ankush	Ankush
4	1AH22AE004	ASHOKKUMAR	Ashok	Ashok	Ashok	Ashok
5	1AH22AE005	ASHWINI Y PATEL	Ashwin	Ashwin	Ashwin	Ashwin
6	1AH22AE006	BABITHA S	Babitha S	Babitha S	Babitha S	Babitha S
7	1AH22AE007	BILVASHREE D	Bilva	Bilva	Bilva	Bilva
8	1AH22AE008	BRAHMENDRA E	Brahma	Brahma	Brahma	Brahma
9	1AH22AE009	CHANDANA M	Chandana	Chandana	Chandana	Chandana
10	1AH22AE010	CHETAN R	Chetan R	Chetan R	Chetan R	Chetan R
11	1AH22AE011	DARSHAN	Darshan	Darshan	Darshan	Darshan
12	1AH22AE012	DEEPIKA C	Deepika C	Deepika C	Deepika C	Deepika C
13	1AH22AE014	G RISHI KUMAR	G Rishi	ABSENT	G Rishi	G Rishi
14	1AH22AE015	HABEEBULLA S	Habeeb	ABSENT	Habeebulla S	Habeebulla S
15	1AH22AE016	KARENA RONAK BABUBHAI	Ronak	Ronak	Ronak	Ronak
16	1AH22AE017	KRISHNA MOHAN RATHOD	Krishna	Krishna	Krishna	Krishna
17	1AH22AE018	KRUTHIKA M	Kruthika M	Kruthika M	Kruthika M	Kruthika M
18	1AH22AE019	LAKSHITHA B	Lakshitha B	Lakshitha B	Lakshitha B	Lakshitha B
19	1AH22AE020	LAVANYA N	Lavanya N	Lavanya N	Lavanya N	Lavanya N
20	1AH22AE021	MALLIKARJUNA	Mallik	ABSENT	Mallik	Mallik
21	1AH22AE022	MOUNESH	Mounesh	ABSENT	Mounesh	Mounesh
22	1AH22AE023	N SHEETAL	Sheetal	Sheetal	Sheetal	Sheetal
23	1AH22AE024	NARAYANA GOWDA S	Narayana Gowda S	Narayana Gowda S	Narayana Gowda S	Narayana Gowda S
24	1AH22AE025	NAVYA SHREE K	Navya	ABSENT	Navya	Navya
25	1AH22AE026	NESARA S SHETTY	Nesara	ABSENT	Nesara	Nesara
26	1AH22AE028	PRIYANAKA P G	Priyanka P G	Priyanka P G	Priyanka P G	Priyanka P G
27	1AH22AE029	PUNITH KUMAR V M	Punith	Punith	Punith	Punith
28	1AH22AE030	RANJAN C	Ranjana	ABSENT	Ranjana	Ranjana
29	1AH22AE031	RASHMI H M	Rashmi H M	Rashmi H M	Rashmi H M	Rashmi H M
30	1AH22AE032	RISHIKESH S	Rishi	Rishi	Rishi	Rishi
31	1AH22AE033	RITHESH R AMIN	Rithesh	Rithesh	Rithesh	Rithesh
32	1AH22AE034	S KUSHAL GOWDA	Kushal	Kushal	Kushal	Kushal
33	1AH22AE035	SAGAR M	Sagar	Sagar	Sagar	Sagar
34	1AH22AE036	SANJANA M	Sanjana M	Sanjana M	Sanjana M	Sanjana M
35	1AH22AE037	SANJANA R CHOUHAN	Sanja	Sanja	Sanja	Sanja
36	1AH22AE038	SANTOSHI	Santoshi	Santoshi	Santoshi	Santoshi
37	1AH22AE039	SHAHID AHMED Z	Shahid	ABSENT	Shahid	Shahid
38	1AH22AE040	SUMANTH N S	Sumanth	ABSENT	Sumanth	Sumanth
39	1AH22AE041	SUPREETH BASAPPA SONNAD	Supreeth	ABSENT	Supreeth	Supreeth
40	1AH22AE042	VARSHA BASAVARAJ	Varsha	Varsha	Varsha	Varsha
41	1AH22AE043	YASHASWINI B	Yashas	Yashas	Yashas	Yashas
42	1AH23AE400	ALEN A K	Alen	ABSENT	Alen	Alen
43	1AH23AE402	SHARMILA B	Sharmila B	Sharmila B	Sharmila B	Sharmila B

12/12



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EVENT FEED BACK FORM

TECHNICAL TALK ON “Student Skill development program on UAV Design and Development-using a Multi Physics Simulation Platform”

SPEAKER : Ms.Shalini

DATE: 09/12/2024 & 10/12/2024

Please indicate the extend which you agree with the following statements:

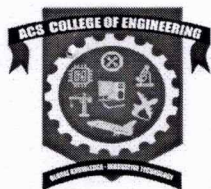
Questionare	Very Good (5)	Good (4)	Satisfactory (3)	Unsatisfactory (2)	Poor (1)
Was the technical talk/seminar/workshop intresting?		✓			
Was it helpful for improving your technical knowledge?		✓			
Was the topic relevant to your subject area?	✓				
Was the presenter able to reach you?	✓				
What concept did you grasp from this event?	multi physics simulation				
Comments	Satisfied				

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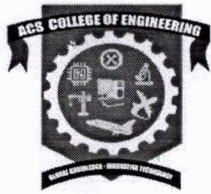
Questionare	Very Good (5)	Good (4)	Satisfactory (3)	Unsatisfactory (2)	Poor (1)
Was the technical talk/seminar/workshop intresting?	✓				
Was it helpful for improving your technical knowledge?	✓				
Was the topic relevant to your subject area?		✓			
Was the presenter able to reach you?	✓				
What concept did you grasp from this event?	development in UAV				
Comments	good				

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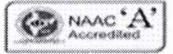


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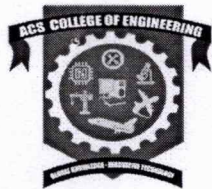
Questionare	Very Good (5)	Good (4)	Satisfactory (3)	Unsatisfactory (2)	Poor (1)
Was the technical talk/seminar/workshop intresting?	✓				
Was it helpful for improving your technical knowledge?	✓				
Was the topic relevant to your subject area?		✓			
Was the presenter able to reach you?		✓			
What concept did you grasp from this event?	Gathered info. in UAV.				
Comments	Good				

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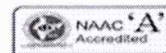


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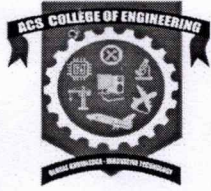
Questionare	Very Good (5)	Good (4)	Satisfactory (3)	Unsatisfactory (2)	Poor (1)
Was the technical talk/seminar/workshop intresting?	✓				
Was it helpful for improving your technical knowledge?		✓			
Was the topic relevant to your subject area?		✓			
Was the presenter able to reach you?	✓				
What concept did you grasp from this event?	Developed using UAV				
Comments	good				

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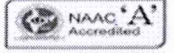


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Was the technical talk/seminar/workshop interesting?		✓			
Was it helpful for improving your technical knowledge?		✓			
Was the topic relevant to your subject area?		✓			
Was the presenter able to reach you?	✓				
What concept did you grasp from this event?	UAV . Design				
Comments	good				

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