

AeroVision 2023 Flagship Event Summary

The Eye, CSEA

DATE	TIME	EVENT	COORDINATOR	MODE	ACTIVITY
August 22 (Tuesday)	4:30PM -6:00PM	Workshop	Soorya Subramani (21Z258) (+91 78069 94582)	Offline	<ul style="list-style-type: none"> • Introduction to Event, Aviation Security • Secure Coding Techniques, GitHub and GitGuardian • Linux and Python Basics for Security
August 23 (Wednesday)	7:30PM	Workshop	Soorya Subramani (21Z258) (+91 78069 94582)	Online	<ul style="list-style-type: none"> • Secure Coding for Aerospace • Top 10 Vulnerabilities in Commercial Aviation web portals and Aerospace Embedded Systems • Software-Defined Radio and ADS-B • Problem Statements Release
August 24 (Thursday)	5:00PM	Hackathon (Round 1)	Swetha M (21Z362) (+91 98431 92749)	Online	Online MCQs on Kahoot Platform
August 27 – 29	12AM - 11:59PM	Hackathon	Ashwant Krishna R (21Z211) (+91 94867 22137), Dhanush G (20Z214) (+91 95353 62134)	Online	Hackathon Takes Place
August 30 (Wednesday)	7:00PM	Hackathon (Final Round)	Swetha M (21Z362) (+91 98431 92749)	Online	Online MCQ Round on Kahoot Platform and Google Meets
August 31 (Thursday)	4:30PM	Prize Distribution	Aaditya Rengarajan (21Z202) (+91 94445 11430)	Offline	Prize Distribution and Closing Ceremony at College
September 1 (Friday)	4:30PM -6:00PM	Conference Event	Aaditya Rengarajan (21Z202) (+91 94445 11430)	Offline	AvCON Conference Event <ul style="list-style-type: none"> • Presentations • Closing Keynote

AEROVISION

AEROSPACE CYBERSECURITY EVENT AND CONFERENCE 2023



Prize Pool: INR 12,000

For each stream:

- **First Prize:** INR 3,000 + 1 Month of Free Cloud Compute Server Instance (for n team members)
- **Second Prize:** INR 2,000 + 1 Month of Free Cloud Compute Server Instance (for n team members)
- **Third Prize:** INR 1,000 + + 1 Month of Free Cloud Compute Server Instance (for n team members)
- **Runner-Up:** 1 Month of Free Cloud Compute Server Instance (for n team members)

Other Expenses: INR 2,225

Hosting Expenses:

- Domain Hosting and Server Hosting for CTF
- Server Spaces will be given to Participants for Secure Coding Stream.

Financial Expenditure Plan: Prize Pool and In-Event Expenses from the CSEA. Server Spaces, Domain Hosting, Cybersecurity Mentorship from Self.

#	Description	Quantity	Total Cost	Justification
1	Day 1: Maa Juice	180	INR 1,800	Networking, Energization, Incentive for Motivation.
2	Personalized Certificates for Participants	15	INR 450	Celebration of Involvement, Mementos
3	Prize Money for Contributions	1	INR 12,000	Fostering Competition, Honoring Talent
	Total Expenses		INR 2,250	
	Total Budget		INR 14,250	

Intellectual Property Agreement: Any intellectual property developed during and within the scope of the hackathon is under the command of the intellect that generated it.

Proposed Dates: August 22 – September 1, 2023

Maximum # of Participants: 150 Participants

Eligibility Criteria: Open to All Departments and Years of PSG College of Technology.

Pre-Requisites

- Knowledge in basic Coding Concepts
- A brief history showcasing the individual's interest in either Coding, Security, or Aviation

August 22 (Tuesday | Offline Session [4:30PM - 6:00PM])

- [4:30PM - 4:45PM] Intro to the Event
- [4:45PM - 5:00PM] Partners and Panel Introduction
- [5:00PM - 5:15PM] Introduction to Aviation Security (Session by Aero Modelling Club)
 - What are we trying to protect?
 - Profile of an Airport, Profile of an Airplane
 - A peek into Drone Security and Drone Systems
- [5:15PM - 5:30PM] Secure Coding Techniques, GitHub and GitGuardian (Session by GitHub Campus Club)
- [5:30PM - 6:00PM] Linux and Python Basics for Security

August 23 (Wednesday | Online Session [7:30PM])

GitHub Stream

- What is secure coding for aerospace?
- Top 10 vulnerabilities in
 - Commercial Aviation web portals
 - Aerospace Embedded Systems
- Using GitHub for private collaboration work (Session by GitHub Campus Club)
- What is Software-Defined Radio and ADS-B? (Session by ISAC)

Vulnerability Testing Stream

- What is a Capture-The-Flag? (Session by ISAC)
- Using the Lockheed KillChain to identify vulnerabilities
- OWASP Top 10
- What is SCADA?
- How to test SCADA?
- Tips to score in a CTF

August 24 (Thursday | Online Session [5:00PM])

Online MCQ Round (Round 1) on Kahoot Platform. [Different Kahoots for different streams]

Top 50 Members are taken for Secure Coding Stream Round 2

All members are taken for Vulnerability Testing Stream Round 2

August 25, 26 – No Events

August 27 – August 29 [12AM - 11:59PM] (Sunday, Monday, Tuesday)

Hackathon Takes Place. All GitHub Repositories must be made public between 12:00AM and 10:00PM of this August 29.

Depending on whether the participant decides for the software solution to be Open-Source or Proprietary-Ware, they can choose to keep it public or change it to private after 10:00AM.

Submissions will be made on DevPost (<https://devpost.com/>)

Panels Review takes place.

Top 5 teams from each stream is released by 10:00PM

August 30 (Wednesday | Online Session [8:00PM])

Online MCQ Round on Kahoot Platform and Google Meets Platform is conducted at 8PM, and top 4 out of 10 teams are announced as winners. [Kahoot will be conducted amongst all 10 teams on the topic of Secure Coding]

August 31 (Thursday | Offline Session [04:30PM])

Prize Distribution and Closing Ceremony at College (Audience: All participants that qualified to Round 2)

September 1: AvCON Conference Event Friday 4:30PM - 6:00PM | Offline Session

Audiences :- All available participants and relevant faculty invitees, All interested professors.

The 4 winning teams will have to present their unique ideas on-stage.

[4:30PM] Opening Keynote and Welcome to Partners and Winners by The Eye

[4:45PM – 5:30PM] Presentations, Discussions and Proceedings

[5:45PM] Closing Keynote