AeroVision 2023 Flagship Event Summary

The Eye, CSEA

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| **DATE** | **TIME** | **EVENT** | **COORDINATOR** | **MODE** | **ACTIVITY** |
| August 22 (Tuesday) | 4:30PM -6:00PM | Workshop | Soorya Subramani  (21Z258)  (+91 78069 94582) | Offline | * 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 | * 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   * Presentations * Closing Keynote |

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| 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

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