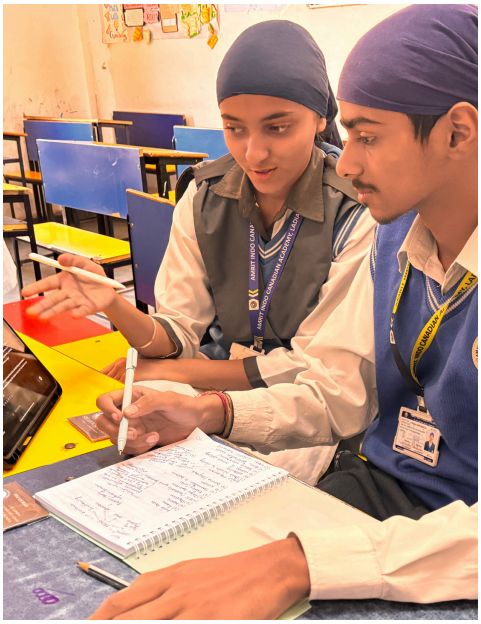
Aero Innovators

Club Logo

Club project spotlights : The aerospace club is a hub of innovation where young minds explore the signs of flight through hands on drone research. The club provides students with a platform to understand aerodynamics, design, concepts, and emerging technologies shaping the future of aviation.

Aero Innovators

Dream It. Build It. Fly it.



Student Voices :

- "I never imagined I could design something that actually flies—this club motivates me every day."- Gurmanat
- "Teamwork, experiments, and the thrill of testing our drone models make this club the best part of school."- Rashmeet

Club Name:	Motto	Manager
Aero Innovators	Crafting the future of flight technology	Balwinder Kaur

Project Report and Skill Development

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Balwinder Kaur- 14/11/2025

Project Goals: To research ways of increasing battery efficiency for longer flight time.To develop a lightweight drone frame.To explore sensor based automation for navigation.

Process/ Steps: Brainstorming & Research – Students studied drone types, aerodynamics, and basic avionics.Component Study – Understanding motors, ESCs, batteries, and flight controllers.

Skills Learned: Fundamentals of aerodynamics and flight physics. Problem-solving and analytical thinking.Team collaboration during build and testing phases.

Challenges and solutions :

Challenge: Difficulty understanding advanced aerodynamic concepts like induced drag and lift coefficient. Solution: Students used slow-motion animations, diagrams, and simplified models to break the concepts into understandable parts.

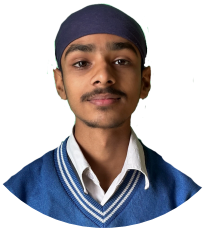
Meet the Team :

Rashmeet Kaur- 11A

Gurmanat Kaur- 11A

Jasmeet Kaur- 11A

Chetan Kumar- 11A



Arham Jain- 11A

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