SEDS CUBESAT WORKSHOP

STUDENT LEARNING RULEBOOK

Objective: To help students understand CubeSat technology from the basics through guided learning and practical demonstrations. This is a learning workshop, not a competition.

1. General Rules

1. All students should participate actively in the workshop.
2. Students should follow the mentor's instructions.
3. Students are encouraged to ask questions and discuss technical concepts.
4. Students should maintain discipline and respect other participants.
5. All teams should share equipment and workshop materials responsibly.

2. Learning Topics

6. Introduction to CubeSats and their applications.
7. CubeSat structure, dimensions and materials.
8. Satellite subsystems: power, communication, onboard computer and payload.
9. Basic electronics, sensors and microcontrollers.
10. CubeSat design using CAD software.
11. Satellite communication, testing and mission planning.

3. Practical Activities

12. Observe CubeSat components and structural models.
13. Learn to create a basic CubeSat design.
14. Explore sensors and microcontrollers through demonstrations.
15. Understand how satellite subsystems work together.
16. Participate in guided group activities and discussions.

4. Safety Rules

- Handle electronic components and tools carefully.
- Use equipment only with mentor or organizer approval.
- Do not connect batteries or circuits without guidance.
- Follow instructions during all practical demonstrations.
- Return equipment and materials after use.

5. Participation Guidelines

- No prior CubeSat experience is required.
- Students may work in teams to support collaborative learning.
- Students should complete the assigned learning activities.
- Students are encouraged to take notes and clarify doubts.
- The focus is on understanding, exploration and skill development—not competition or ranking.