

Mission ShakthiSAT

Mission ShakthiSAT: Updated FAQs and Key Information

1. Vision

The vision of Mission ShakthiSAT is to empower 12,000 girl students from 108 countries through STEM education and space exploration. The mission seeks to ignite interest in science and technology among young girls globally and to shatter stereotypes by giving them an opportunity to build and **launch a satellite aimed at the lunar orbit**. This initiative aims to promote gender equality in the space sector and foster global unity through international collaboration in space projects. Mission ShakthiSAT is an ambitious initiative aimed at empowering young women in space science and technology. By encouraging girls to pursue STEM, the mission strives to bridge the gender gap and foster diversity in the space industry. ShakthiSAT plans to send a satellite into lunar orbit, marking a significant milestone.

2. Timeline Overview

Selection Phase

→ **1st Week of March 2025:**

- ◆ Select 108 girls from each of the 108 participating countries.
- ◆ **Group Photo Option:**
 - If possible, arrange for all selected girls to gather in one location for a group photo.
 - If not, create a **collage** featuring the participants with their respective ambassadors/advisors.

Curriculum Rollout

→ **Start Date: 18th April 2025** (3rd Thursday of April).

→ **Curriculum Details:**

- ◆ **Duration:** 120 hours, delivered in modules spaced at **2-week intervals**.
- ◆ **Languages Supported:** English, French, Spanish, Portuguese.
- ◆ **Delivery:** Online, self-paced with flexible deadlines to ensure inclusivity.

Selection of Final Participants

→ **Mid-October 2025 to November:**

- ◆ Once the curriculum is completed, conduct a **selection process** to identify **one top-performing girl** from each country.

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Hands-On Satellite Training in India

→ **December 2025 - January 2026:**

- ◆ The **Ambassador** and the **chosen girl** from each country will visit India for **10–12 days**.
- ◆ Hands-on training on satellite building at Space Kidz India facilities.

Fundraising Activities

→ **Start Date:** End of February 2025.

→ **Plan:**

- ◆ Collaborate with **airline industries** for transportation support.
- ◆ Partner with **universities** for accommodation support.
- ◆ Explore crowdfunding platforms, corporate sponsorships, and grants.

→ **Stretch Goal:**

- ◆ If sufficient funds are raised, create an opportunity for another participant from each country to **witness the satellite launch in India LIVE**.

- ◆ **Integration, Testing, and Launch**

→ **February 2026 - September 2026:**

- ◆ **Duration:** 4 months for integration and testing.
- ◆ **Launch Date:** September 2026.

3. Process

Student Selection

- **Criteria:** Selection will be based on academic performance, engagement in the training program, and demonstrated interest in STEM. A total of 108 students from each country will be shortlisted for Phase 1, by the Devi's/Ambassadors.
- **Dropout Strategy:** The curriculum's flexible nature ensures students can pause and resume their learning as needed. This adaptability minimizes dropouts by accommodating individual challenges and needs.

Training Program

- **Content:** The 120-hour course covers:
 - ◆ Physics, mathematics, and electronics (PCB designing).
 - ◆ Programming, coding, and satellite systems.
 - ◆ Introduction to payload design and spacecraft assembly.
- **Flexibility:** Recorded sessions and modular content ensure accessibility across time zones. Live Q&A sessions will be scheduled multiple times to accommodate global participants.

Satellite Development

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- The hands-on phase in India will culminate in the development of a functional satellite, ready for testing and eventual deployment.

4. Alternative Plans for Funding

Primary Strategy:

- **Grassroots Approach:** The total project cost for Mission ShakthiSAT is estimated to be **15 million USD**.
- This mission is not just a project; it is a global movement to inspire and empower young girls through the transformative power of space exploration. Together, we can make this dream a reality.
- To meet the financial requirements, **we will tap into multiple avenues and knock on many doors**. We will reach out to governments, corporations, philanthropic organizations, and individuals who share our passion for fostering STEM education and gender equality. We will seek partnerships with industries, universities, and institutions globally to pool resources and expertise.
- Each one of us in this mission is committed to doing our part, and with the collective efforts of our global family, we are confident we will reach the target. Mission ShakthiSAT is a testament to what we can achieve when the world comes together for a noble cause. Let's rally together, explore every opportunity, and make this groundbreaking mission a reality.

Supplementary Measures:

- **Corporate Sponsorships:** Partnerships with industries and educational institutions.
- **Logistical Collaborations:** Collaborating with airlines for subsidized travel and universities for affordable accommodations.

Fallback Option:

- In case of a shortfall, the mission will shift from a lunar orbit focus to a Low Earth Orbit (LEO) mission. This alternative reduces costs significantly while still achieving the core objective of empowering young girls and providing hands-on satellite experience.

5. Curriculum Adaptation for Time Zones

- **Flexibility:** Recorded lectures and modular assignments enable students to learn at their convenience.
- **Live Interactions:** Q&A sessions and group discussions will be held at various times to accommodate global participants.

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- **Blended Approach:** The course combines theoretical lessons with virtual practical tasks to maintain engagement and understanding.

6. Benefits for Participants and Countries

For the Girls

- **STEM Skills:** Hands-on experience in satellite design, coding, and engineering.
- **Networking:** Opportunities to connect with global peers, industry experts, and academic leaders.
- **Empowerment:** Confidence to pursue higher education and careers in STEM, breaking barriers and inspiring others.

For Participating Countries

- **Global Recognition:** Showcasing participation in an international STEM initiative enhances the country's educational and scientific stature.
- **Future Workforce:** Cultivating a generation of skilled professionals ready to lead in space exploration and related fields.

Legacy and Impact

The mission's success will inspire future generations, leaving a historic mark in space exploration and gender equality. By enabling young girls to contribute to a significant space mission, it sets a precedent for global cooperation and innovation.

7. Timeline for Coming to India

- **Tentative Dates:** Selected participants will travel to Chennai, India, between December 2025 and January 2026. Activities will include hands-on training, payload assembly, and satellite testing.
- **Cultural Experience:** Students will also engage in cultural exchange programs, enriching their global exposure and fostering international camaraderie.

8. Final Outcome

- **Empowerment:** 12,000 girls globally will gain knowledge, confidence, and skills to thrive in STEM fields.
- **Historic Milestone:** The satellite developed by these students will be launched into lunar orbit in collaboration with ISRO as part of Chandrayaan 4, showcasing a new era of inclusive space exploration.
- **Global Unity:** The project emphasizes international cooperation, creating a legacy of gender equality and collaboration in STEM

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