



A Shiksha Veritas School & Rocketeers Initiative

ISRO's move towards privatisation heralds a new era of space exploration in India. We're stepping up to foster an ecosystem that will be the cradle of tomorrow's rocket scientists. Our nationwide educational platform is a gateway for students to immerse in hands-on STEM learning, empowering them to spearhead future Mars missions and explore new frontiers. Through a scientifically devised curriculum and tech-enabled processes, we're making rocket science accessible, enjoyable, and intuitive for aspiring innovators across the country.

Welcome to the Rocketeers

At Rocketeers Research Institute, we're on a mission to build a robust foundation for space exploration within the classrooms of India. In partnership with ISRO, our workshops are designed to spark a lifelong interest in STEM and provide a practical pathway for aspiring young rocket scientists.

Why Model Rocketery

Model rocketry isn't just about the thrill of launch. It's a comprehensive educational tool that reinforces physics concepts, nurtures critical thinking, promotes teamwork, and instils a growth mindset.



Workshop Structure

Basic Model Rocketry

STUDENTS CAN BUILD & LAUNCH OUR
Flagship MODEL ROCKET

- ▶ Duration: One Day (7-8 Hours)
- ▶ The workshop begins with an introductory session to build awareness, followed by a session on basic model rocketry principles. Participants then move on to hands-on sessions where they build and fly model rockets. The day concludes with a Q&A and feedback session to address any queries and gather insights on the learning experience.

Curriculum Includes

- ▶ **Rocketry Basics**
Core principles of motion, forces, and energy.
- ▶ **Mathematics**
Practical applications of algebra, trigonometry, and calculus.
- ▶ **Aerodynamics**
Airflow and forces, relating to rocket design and flight.
- ▶ **Propulsion**
Engine types and basics of propulsion for rocket flight.
- ▶ **Flight Mechanics**
Dynamics from liftoff to reentry.
- ▶ **Stability**
Importance of stability in rocketry.
- ▶ **Design Concepts**
Design principles for building your own rocket.

This structure provides a blend of theoretical knowledge, practical skills, and interactive feedback, catering to different learning levels and ensuring a comprehensive understanding of model rocketry.





Workshop Pricing

Basic

Model Rocketry Workshop Model Rocket & Price

**Moonshot
Model Rocket Kit**

Rs 2600/-



BASIC MODEL ROCKETRY WORKSHOP

WORKSHOP SCHEDULE

SESSION	DURATION	TOPIC
Session 1	1h 30min	Introduction and awareness
Session 2	1h 30min	Basic model rocketry
Break	30min	Lunch
Session 3	1h 30min	Science of model rocketry
Session 4	1h 30min	Training of rocket building
Transit	10min	School to ground
Session 5	1h	Launching model rocket
Transit	10min	Ground to school
Session 6	15min	Q & A, feedback

For registration kindly check the whatsapp, Facebook or Instagram link and register online or call us on 7030046699/ 9322922358



Learning Outcomes

- ▶ **Comprehensive Understanding:** Delve into the physics of rocket science with a hands-on approach.
- ▶ **Bridging Theory and Practice:** Apply theoretical knowledge in real-world scenarios.
- ▶ **Holistic Learning:** Explore physics, equations, and systems design, and experience rocket launching.
- ▶ **Real-World Applications:** Understand the interplay between math, physics, and tangible applications.
- ▶ **Rekindled Passion for Science:** Reignite a love for science through experiential learning.
- ▶ **Invitation to Explore:** Opportunity to host the Model Rocketry Workshop at your institute for an enriched educational experience.

Benefits

- ▶ **Certification:** From Rocketeers and the International Space Society.
- ▶ **Rocketeers Kit:** Rocket, motor, accessories, manuals, space-themed poster, and fins.
- ▶ **Expert Guidance:** Learn from ISRO scientists with free career counselling.
- ▶ **Lifetime Membership:** To the Rocketeers Model Rocketry Club.
- ▶ **International Exposure:** Build and fly model rockets with NAR(USA), and explore abroad opportunities.
- ▶ **Institute Empowerment:** Receives launchers and ignition systems for club activities and integration of model rocketry into student life.

