



Indian Astronomy Group

Indian Astronomy Group identifies the young aspirants who show keen interest and enthusiasm in Space Science. The selected students, ranging from the age group of 9 to 18 years are groomed meticulously with the basics of Astronomical Sciences and their hypothetical inceptions are strengthened by a visit to NASA, which provides them a solid footage to further enhance their interest in astronomy and endure their skills and motivate them for supplementing their knowledge hereby laying firm foundation for their Astronomical comprehension

The **Indian Astronomy Group Chairman** is an authorised Space Camp Ambassador and appointed to represent Space Camp and Aviation Challenge in India & GCC Countries. Space Camp Ambassadors promote Space Camp and Aviation Challenge and have an opportunity to register attendees in various camps.

Now IAG proudly introduce an **Edutour to NASA**

SPACE SCHOOL

@ Space Centre Huntsville, Alabama



EXPERIENCE THE ADVENTURE.
LIVE THE DREAM.



SPACE CENTER HUNTSVILLE

SPACE CENTER HUNTSVILLE, ALABAMA is a place where people can experience space – its dramatic history and exciting present to its compelling future. Space Center Huntsville, Alabama is the only place on Earth that gives guests an out-of-this world journey through human adventures into space.



SPACE CAMP



SPACE CAMP is the adventure of a lifetime! Space camp encourages trainees to pursue more science, technology, engineering and math (STEM) through exciting hands-on educational activities. The facility is located on the grounds of the U.S. Space & Rocket Center, which is also the official visitor center for NASA's Marshall Space Flight Center.

ACTIVITIES:

Space Mission

Mars Mission

History

Experiments

IMAX @ or 3-D Movies

Astronaut Simulators

Rocket Constructions

Space Mission

Students in mission control will monitor the progress and safety of the mission.

Those in Shuttle Mission successfully launch and land the spacecraft.

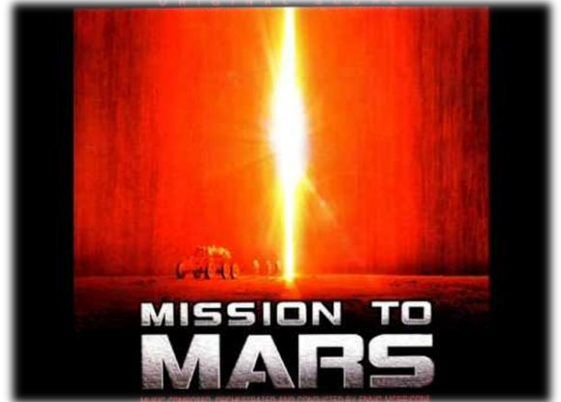


SPACE CAMP



Mars Mission

Trainees will climb the tallest mountain on Mars, with the help of Mars climbing wall and experience the 4Gs of liftoff



IMAX or 3D Movies

It help trainees get an astronaut's view of the earth while watching amazing films in IMAX Spacedome & 3D digital theatres.



History

Crew trainers will guide trainees through the past, present & future of space exploration using actual rockets and shuttles as backdrop.

Experiments

Students in Space station will conduct experiments while learning basic scientific principles.



SPACE CAMP



Astronauts Simulators

Trainees will climb the tallest mountain on Mars, with the help of Mars climbing wall and experience the 4Gs of liftoff



Rocket Construction

The trainees will have a hand on experience in Rocket Construction.



SPACE ACADEMY



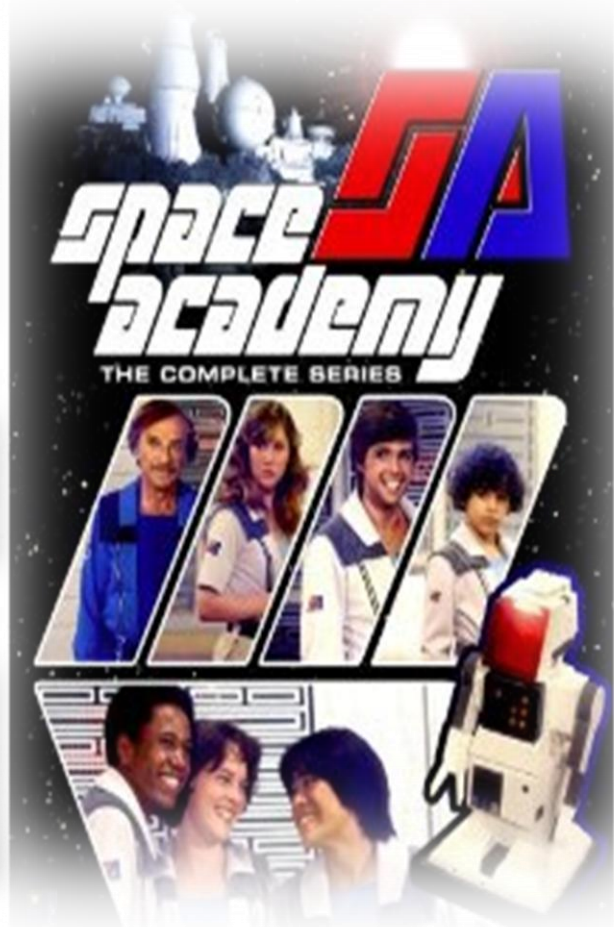
SPACE ACADEMY is an exciting adventure that is both educational and exhilarating! The program incorporates real-world applications of science, technology, engineering and math (STEM). The trainees will prepare to become the new generation of lunar explorers, with hands-on activities that place them in the role of spacecraft designers and astronauts.

ACTIVITIES:

Modern space flight knowledge that prepares future space leaders.

Exciting challenges in Space Station Mission Complex.

Technically-challenging anomalies help make use of critical thinking and skills.



ADVANCED SPACE ACADEMY



ADVANCED SPACE ACADEMY is an adventure where high-school trainees forge futures, find friends and explore careers. Trainees are immersed in science, technology, engineering and math (STEM) education while focusing on college and career preparation. Extended-duration missions give trainees more teamwork experience to prepare them to the next generation of space leaders and explorers.

Advanced Space Academy trainees may select from the following track options:

MISSION SPECIALIST TRACK :

- Space Suit Theory and Design
- Space Physiology
- Scuba Space Walk Training



PILOT TRACK :

- Aeronautic Design
- Jet Aircraft Simulations
- Orbital Mechanics

AVIATION CHALLENGE MACH 1



Aviation Challenge MACH 1 is a fast-paced, hands-on aeronautical adventure! Trainees are immersed in the fascinating realms of flight while learning about the basics of the military lifestyle. From Bernoulli's Principle to Newton's Laws of Motion, MACH 1 students will experience a classroom unlike any other.

Aviation Challenge MACH 1 is a military style program that uses simulated, realistic combat scenarios.

FLIGHT SIMULATORS :

- Take-off and landing
- Teamwork
- Navigational Training
- Air-to-ground Training



AVIATION PRINCIPLES :

- Forces of Flight
- Aviation Weather
- Control Surfaces
- Propulsion

AVIATION CHALLENGE MACH II



Middle school trainees take on new challenges as they fly head-to-head against other squadrons in the high-performance complex simulators in **Aviation Challenge MACH II**. Trainees learn teamwork, leadership and professionalism.

Aviation Challenge MACH II is a military style program that uses simulated, realistic combat scenarios.

FLIGHT SIMULATORS :

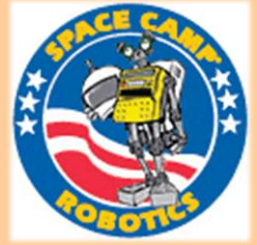
- Take-off and landing
- Teamwork
- Navigational Training
- Air-to-ground Training



AVIATION PRINCIPLES :

- Centrifuge Simulator
- Flight Physiology
- Bernoulli's Principles
- Newton's Laws of Motion

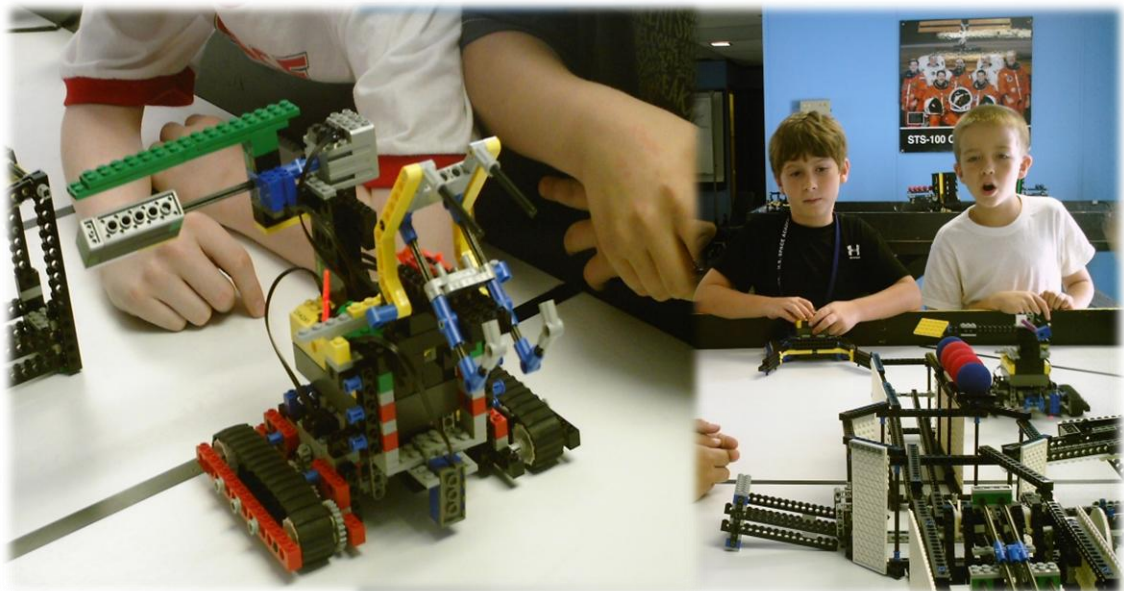
ROBOTICS CAMP



ROBOTICS CAMP at the U.S. Space & Rocket Center is the most comprehensive robotics program in the U.S ! Trainees work together to learn engineering and design of robotics on land, in the air and underwater. The best of today's robotics are tapped for the ultimate robotic gear head: Lego Mindstorms NXT and the Office of Naval Research's SeaPerch.

Activities :

- Robotics Design
- Engineering
- Robotics Competition
- Teamwork
- Teambuilding
- Technology





IAG
Indian Astronomy Group

a venture of **Indian Research Foundation**

This is just a glimpse of the wonderful experience in store. Are you ready to liftoff?



Come, take a giant leap and be a future space Leader & Explorer.

Apart from the experience of the life time, the student will receive Certificates, Team Awards and a lot of stuff.

Indian Research Foundation

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