



THE INTERSTELLAR TRAVELLER



"I envision a Earth-Moon-Mars complex by 2050."

Dr. A.P.J. Abdul Kalam (1931-2015)



"We have made remarkable progress in the last 100 years, but if we want to continue beyond 100 years, our future is in space."

Stephen Hawking (1942 - 2018)



WHO ARE WE?

We make science easy to understand!

Homi Lab is the nation's first live learning platform which teaches science in fun and immersive manner. It aims to ignite the curiosity, creativity and passion for science in learners.

It serves as a medium for bridging the gap between the scientific community and the common masses. It is also an effective tool for extending scientific boundaries and for gaining wide public support for important research and developments happening in the world, which is indispensable for society's welfare.

WHY HOMI LAB?

??? Debunking Myths

We educate people about the mystical science which takes place beyond the sky and help them break the chains of ignorance.

Igniting Minds

We enable the child to harness its curiosity to the full potential and approach not just the science but life also with an inquiry-driven attitude.

INTERNATIONAL ASSOCIATIONS



Mine Analogue Research (MINAR)

MINAR is an underground extra-terrestrial analogue research program which is carried out in a two kilometre underground astrobiology laboratory at Boulby Mines, United Kingdom. In every expedition, around 30 scientists and researchers from institutions across Europe, NASA, the SETI Institute, Australian Space Agency (ASA) and the Kalam Centre-India gather to develop science and technology for the robotic and human exploration of Mars and the Moon. So far 7 expeditions of the MINAR have been organized to test rovers, life support system, radiation impact on life, low water life support, soil mapping, weather forecasting on Mars and several challenges which humankind is expected to face as we settle on the Red Planet.



Asteroid Search Campaign is an educational outreach program conducted by the International Astronomical Search Collaboration (IASC) which provides platform for students to make original astronomical discoveries and participate in hands-on astronomy.



Sally Ride ISS EarthKAM is an international educational programme of NASA through which students can receive images of the Earth from a digital camera mounted in the International Space Station (ISS). We conduct workshop in schools teaching them imaging Earth from a unique perspective of space.

THE INTERSTELLAR TRAVELLER



Almost 50 years ago, humans were walking on the moon. But we stopped going in 1972 and never ventured any farther, except by sending robotic probes. Humans have never gone to Jupiter, as the book and movie "2001: A Space Odyssey" promised us, or even to Mars. What is it that makes travel far away so difficult?

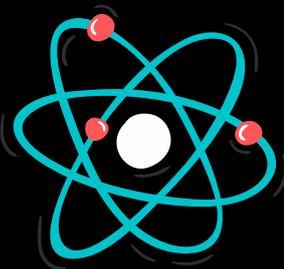
Besides the obvious human health concerns and budgetary issues, there are vast technological problems with traveling to faraway places. Yet, Interstellar travel is still possible and we will explore and learn how.

We offer three modules under this course



Voyage Towards New Home

Discovering thousands of planets beyond our solar system counts as a "eureka" moment in human exploration. But the biggest payoff is yet to come: finding evidence of a distant world hospitable to life. What could be that celestial body?



Mysterious "unknowns" of Universe

We still have a long way to go when it comes to untangling the mysteries of the Universe. Let us take a look at some of the most perplexing questions yet to be answered by science and how close we are to finding the facts about space.



The Science of 'Interstellar'

The sci-fi epic "Interstellar" is just a movie, but it throws a lot of science on the screen for space geeks to sink their teeth into. Let us have a look at some of the futuristic space-science concepts that play key roles in the film,

COURSE INCLUDES



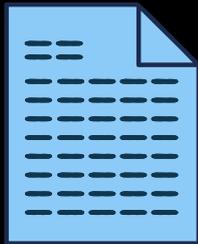
Live Online Sessions

School goes online! This summer delve deeper into the world of astronomy through a series of classes conducted online.



Exciting Videos & Presentations

Get a visual treat to understand complex and difficult scientific phenomenon and process in simplified manner.



Customised Handouts

Digital handout for each session which includes interesting facts and stories, activities to do and recap of the sessions.



Guest Lectures

Apart from these sessions, there would also be some guests lecture by international and national experts.



Interactive Quizzes

Solve the quiz and test your knowledge at the end of each session. Show your score to your friends and challenge them.



e-Certification

On successful completion of the course, you will be issued an e-certificate.

INTERSTELLAR TRAVELLER



Exoplanets and Satellites

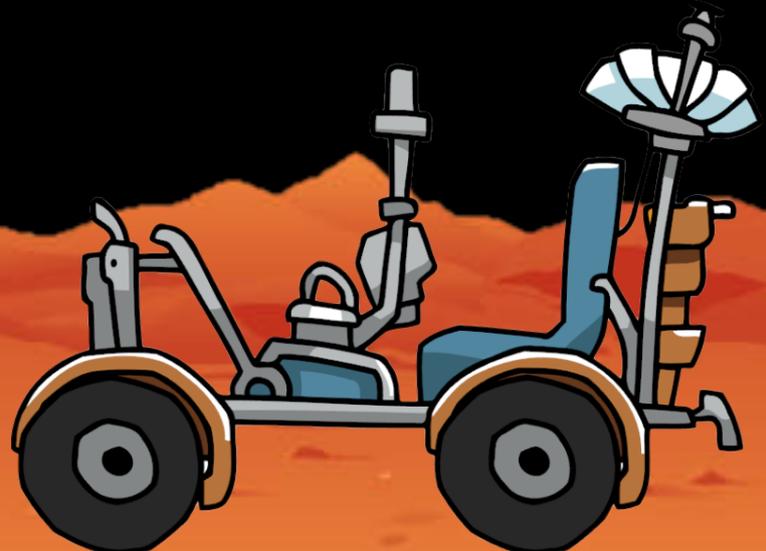
Interstellar Spaceships

Matter and Anti-Matter

Mysterious Dark Energy

Black Holes and Wormholes

Concept of Time Travel



MISSION CONTROL



COMMANDER: SRIJAN PAL SINGH

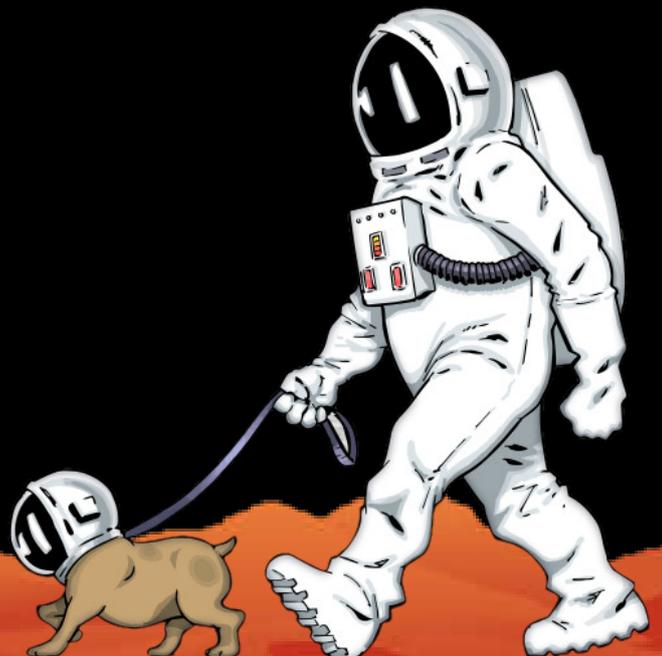
Srijan Pal Singh is an author, public speaker, education innovator and social entrepreneur. He served as the Officer on Special Duty and Advisor (Policy and Technology) at the Office of Dr. APJ Abdul Kalam where he worked as a close aide to the former President on various consulting works.



CAPTAIN: PREKSHA SETHIA

Preksha Sethia is a physical science graduate and space enthusiast. She worked as research assistant for Reignited 2, a sequel to Reignited written by Dr. A.P.J. Abdul Kalam, 11th President of India.

- **The course consists of 6 sessions and is offered in English.**
- **Each session would be of 50 minutes. Special Q&A session every Sunday**
- **Recommended Age Group: 10 years onwards**



THINGS YOU WILL BE FLUENT ABOUT AFTER THIS COURSE

Black Hole

Gravity

Interstellar

Dark Energy

Rover

Exoplanets

Time Travel

Worm Hole

Galaxies

G-Force

Matter & Anti-Matter

Europa

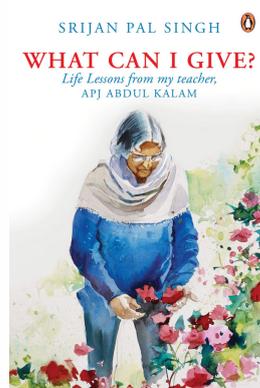
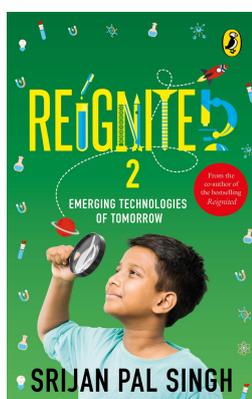
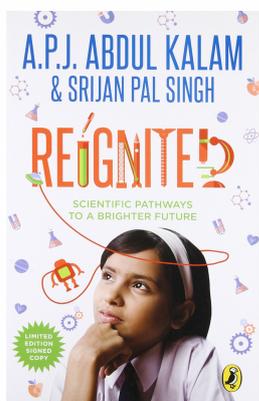
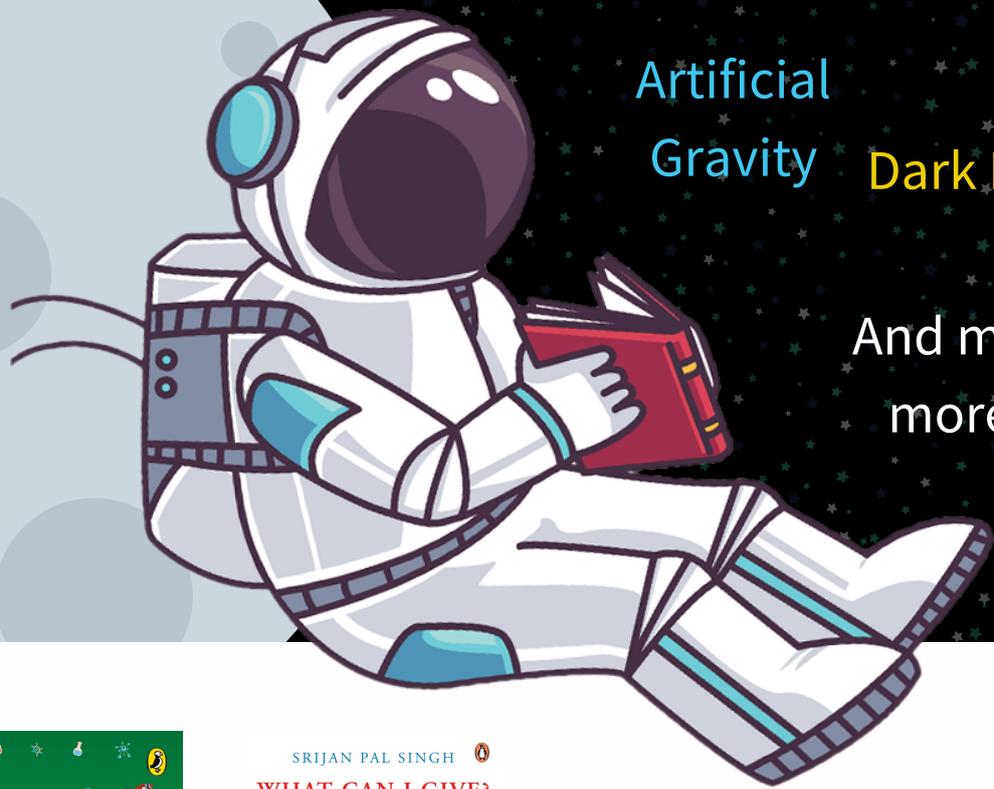
Time Dilation

Artificial

Gravity

Dark Matter

And much
more...



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