



RV Educational Institutions®
RV College of Engineering®

Autonomous
Institution Affiliated
to Visvesvaraya
Technological
University, Belagavi

Approved by AICTE,
New Delhi



Bangalore Branch



A E R O M A N I A



OCTOBER SKY-by TA

WORKSHOP DETAILS



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About workshop:

An interactive workshop for students to learn about the practical science behind the working of a rocket. Through the workshop, students will learn about the basic principles of physics, mathematics, engineering and construction techniques used by the model rocketry community. The workshop will consist of theory, discussions, Q & A sessions with slides and videos, including building and launching model rocket motors.

DAY 1

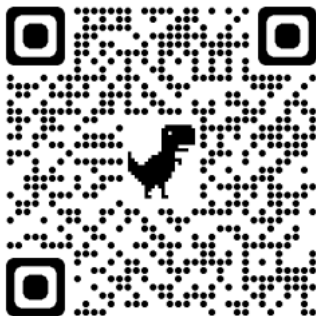
Conceptual briefing of how a rocket is built and works with the help of presentations and demonstrations.

Each subsystem of Team antariksh's rocket project will present a theoretical overview of their respective subsystem along with interactive demonstrations and live software sessions. An Interesting session of visit to the jet engine lab, subsonic and supersonic wind tunnel to observe the standard experimentation techniques awaits the participants at the end of day 1!

DAY 2

The participants will be grouped into teams where they will be guided to build their own solid rocket motor from scratch and test it.

REGISTRATION LINK:



FOR QUERIES CONTACT:

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TIMELINE and VENUE:

DAY 1:

EVENT	TIMELINE	VENUE
Intro to TA	12:30- 12:40	Seminar hall
Aerostructures PPT	12:40 - 12:55	Seminar hall
Open rocket	12:55 - 1:05	Seminar hall
Swing Test	1:05 - 1:10	Seminar hall
CP CG test	1:10- 1:15	Seminar hall
Avoics PPT	1:15 - 1:35	Seminar hall
Avoics Activity	1:35 - 1:50	Seminar hall
Break	1:50- 2:00	Canteen
Payload PPT	2:00 - 2:20	Seminar hall
Payload event	2:20 - 2:40	Seminar hall
Propulsion PPT	2:40 - 2:55	Seminar hall
Open Motor Simulation	2:55 - 3:00	Seminar hall
Recovery PPT	3:00 - 3:20	Seminar hall
Logistics	3:20-3:30	Seminar Hall to CS Ground
Recovery Drop test	3:30 - 3:45	CS ground
Nose cone ejection + Remote ignition test	3:45 - 4:00	CS ground
logistics	4:00- 4:10	CS ground to Aerospace Lab
Subsonic Wind Tunnel	4:10 - 4:40	Aerospace Lab
Supersonic Wind Tunnel	4:40 - 5:10	Aerospace Lab
Jet engine Test	5:10 - 5:40	Aerospace Lab

DAY 2:

Event	Timeline	Venue
Procedures Explained	10:00 - 11:00	MCA seminar hall
Preparation of motor	11:00- 1:00	Amphitheater
Mixing of propellant	11:00 - 11:30	Amphitheater
Bentonite clay preparation	11:30 - 12:00	Amphitheater
Ramming	12:00 - 12:30	Amphitheater
Drilling	12:30 - 1:00	Amphitheater
Preparation of ignitor	1:00 - 2:00	Amphitheater
Lunch Break	2:00 - 2:45	Canteen
Static Fire test	2:45 - 6:00	CS ground