Iragu Foundation

STEM

WINGS Let's Fly

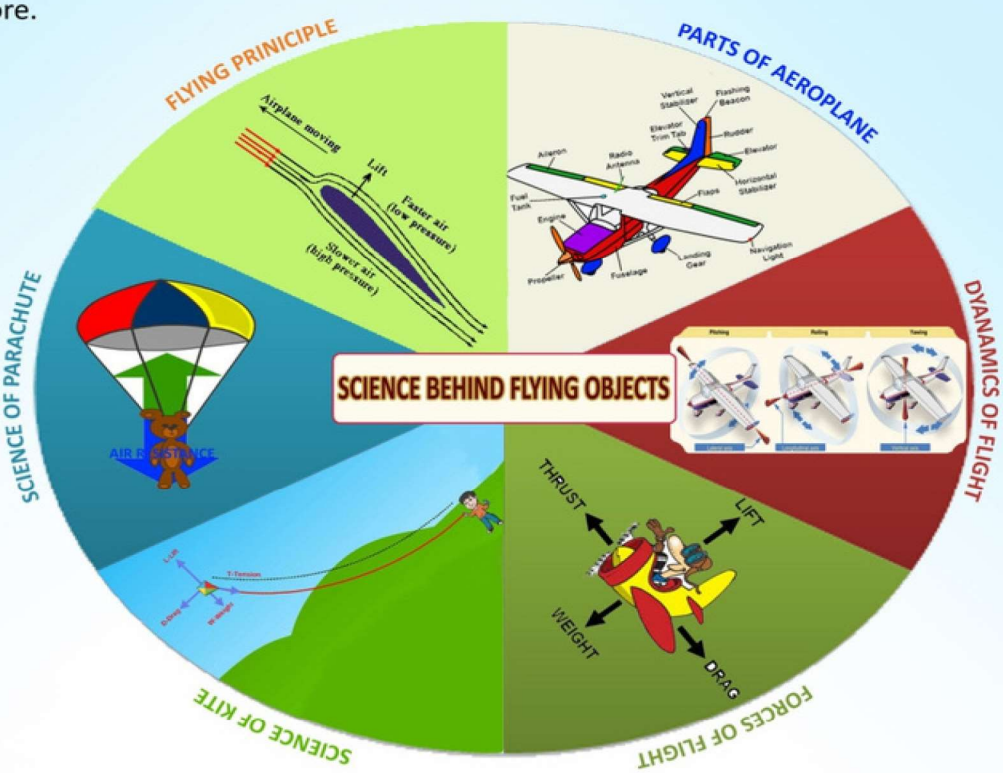
Aeromodelling - A Science

- Do you have children in your school who are **NATURALLY CURIOUS?**
- Does a **FLYING AIRCRAFT** trigger their interest?
- Do they have an inclination towards **SCIENCE?**

If the answer is YES, then let them take our 3 year program on Aeromodelling - **DESIGNING, BUILDING AND FLYING MINIATURIZED AIRCRAFTS**

Junior Aeronautical Engineering

The Junior Aeronautical Engineering classes introduce our youngest engineers to fundamental concepts of aircraft design. Through open and focused exploration, students explore and construct airplanes, rockets, parachutes and more.



EXPERIMENTS UNDER JUNIOR ENGINEERING PROGRAM

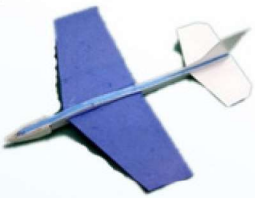
Kite

Parachute - 2 Models

Paper Plane - 20 Models

Hovercraft

Smart Bird Glider



Foam with Balsa Glider

Balsa Glider

Rubber Powered Glider

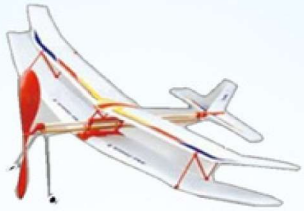
Water Bottle Rocket

Bachelor Aeronautical Engineering

This is the second level of learning. In this bachelor aeronautical engineering, students can use the concepts of Engineering Design to design, create, test and modify a flying machine.

EXPERIMENTS UNDER BACHELOR ENGINEERING PROGRAM

Ornithopter



Rubber Powered Biplane

Smart Bird Biplane

Balsa Chuck Glider

Aeroplane Skeleton Model

Battery Powered Glider

RC Simulator Training

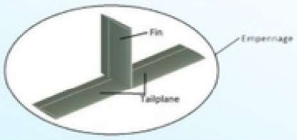
Control Line Plane

Master Aeronautical Engineering

Students can now innovate and become masters of Aeronautical engineering. They will design, create, test and refine their own remote controlled flying machine, under the RC pilot's supervising.

FABRICATION EXPERIMENTS UNDER MASTER AERONAUTICAL ENGINEERING

Fuselage



Empennage

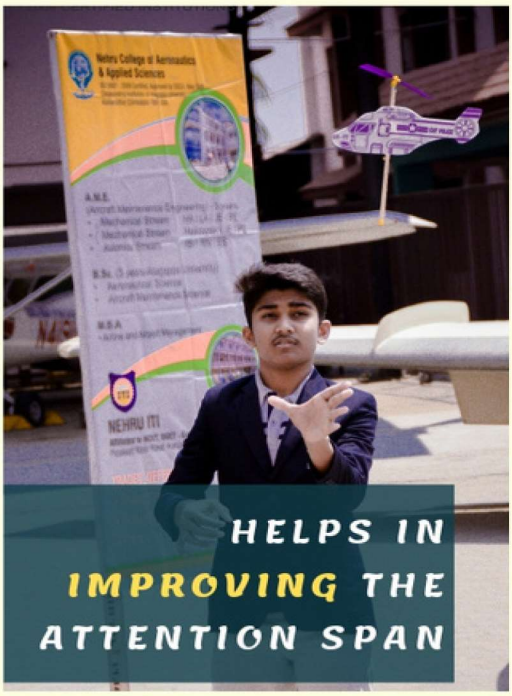
Wing

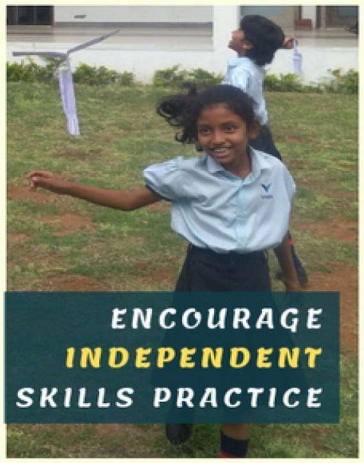
Firewall

RC Simulator

RC Plane

AERO CLUB ACTIVITY GALLERY

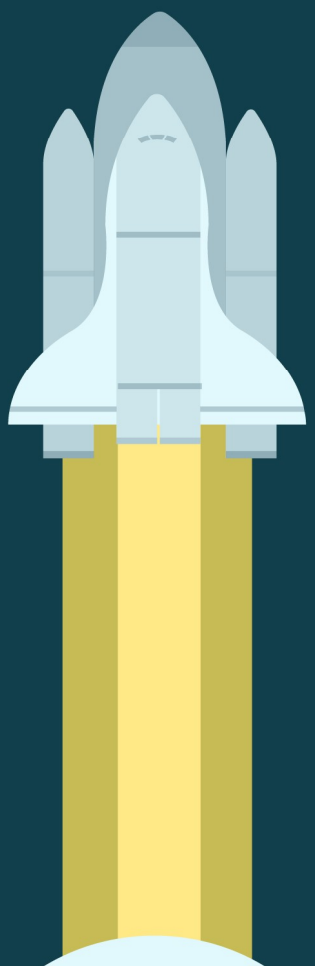




SMART AEROMODELLING CLUB

DURATION 20 HRS

ELIGIBILITY 4TH AND ABOVE



1 KITE

- Kite history
- Kite principle
- Kite parts
- Kite types
- Role of kites in world war-I
- Making kite

PARACHUTE 2

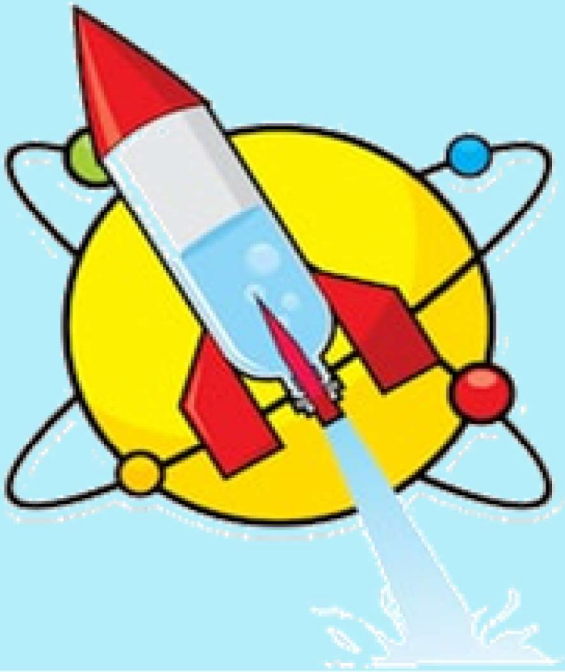
- Air resistance
- Parachute parts
- Making parachute

3 BALSA WOOD GLIDER

- Glider history
- Glider flying principle
- Glider parts
- Making Balsa Glider

4 MONO PLANE (RUBBER POWERED)

- Aeroplane History
- Bernoulli's – Flying principle
- Aeroplane wing types
- Making Mono plane
- Energy and its types



ROCKET 5

- Rocket History
- Newton's Third Law
- Forces of rocket
- Rocket engine
- Water bottle rocket launching

6 FOAM BALSA WOOD GLIDER

- Fuselage
- Wing
- Aeroplane Stability
- Making foam Glider

7 SMART BIRD

- Weight balance
- Center of gravity
- Center of pressure
- Making smart bird

HELICOPTER (RUBBER POWERED) 8

- Helicopter history
- Helicopter Flying principle
- Forces of Helicopter
- Parts of Helicopter
- Main Rotor Vs Tail Rotor
- Making powered helicopter

9 TECHNICAL PAPER PLANE

- Aerodynamic forces
- History of paper
- Making paper planes
- Boomerang principle
- Making boomerang/Paper planes

10 SPACE SHUTTLE

- Orbiter vehicle
- Space debris
- Space suit
- Space Shuttle
- Space cleaner method

HOT AIR BALLOON 11

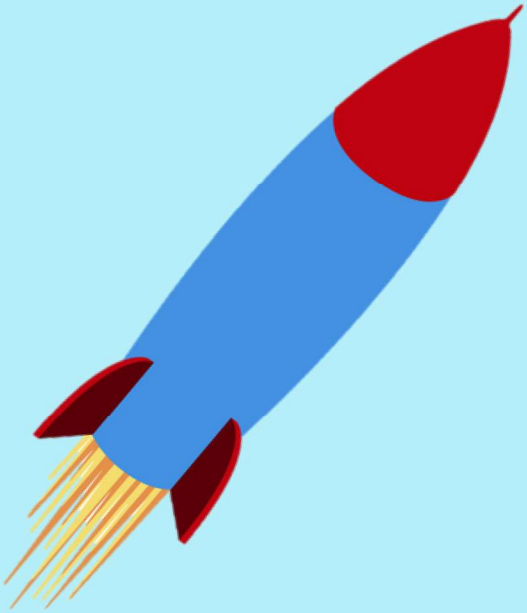
- History of Hot air balloon
- Buoyancy Principle
- Hot air Vs Cold air
- Launching Hot air balloon

12 SPACE

- Astronaut
- Planets
- Satellite Types
- Facts about Space

13 FORCES OF AERO PLANE

- Forces of Aeroplane
- Moments of Aeroplane
- Facts about Aeroplane
- Control surfaces

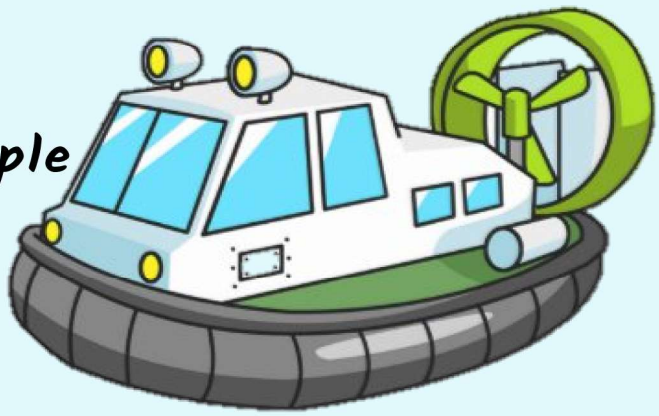


MISSILE 14

- About Missile
- Missile Types
- Missile parts
- Ballistic missile
- Missile propellant
- Making paper Missile

15 HOVERCRAFT

- Hovercraft history
- Hovercraft working principle
- Hovercraft parts
- Making hovercraft



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