



Aeromodelling - A Science

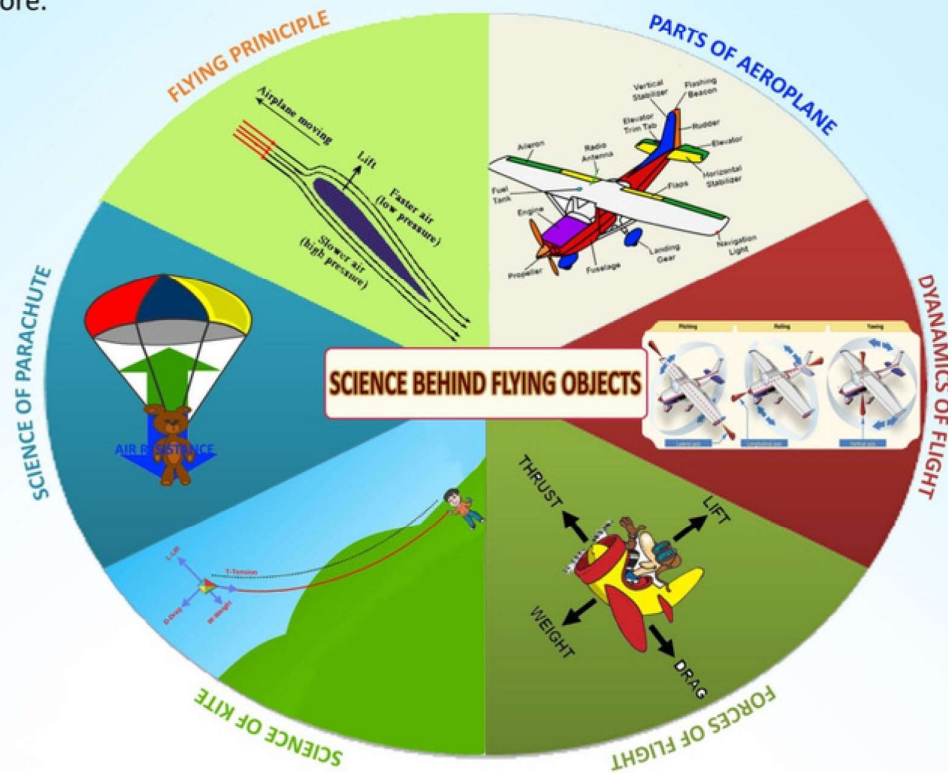
- ✈ Do you have children in your school who are **NATURALLY CURIOUS?**
- ✈ Does a **FLYING AIRCRAFT** trigger their interest?
- ✈ Do they have an inclination towards **SCIENCE?**

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



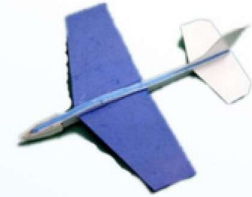
Paper Plane - 20 Models



Hovercraft



Smart Bird Glider



Foam with Balsa Glider



Rubber Band Glider



Rubber Band Glider



Water Bottle Rocket

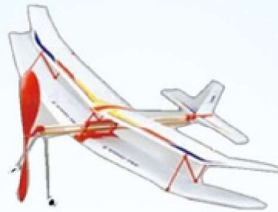
Bachelor Aeronautical Engineering

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



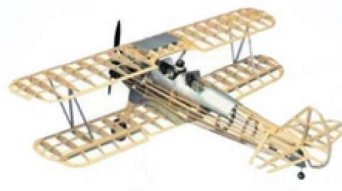
Rubber Powered Biplane



Smart Bird Biplane



Balsa Chuck Glider



Aeroplane Skeleton Model



Battery Powered Glider



RC Simulator Training



Control Line Plane

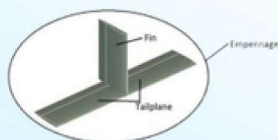
Master Aeronautical Engineering

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



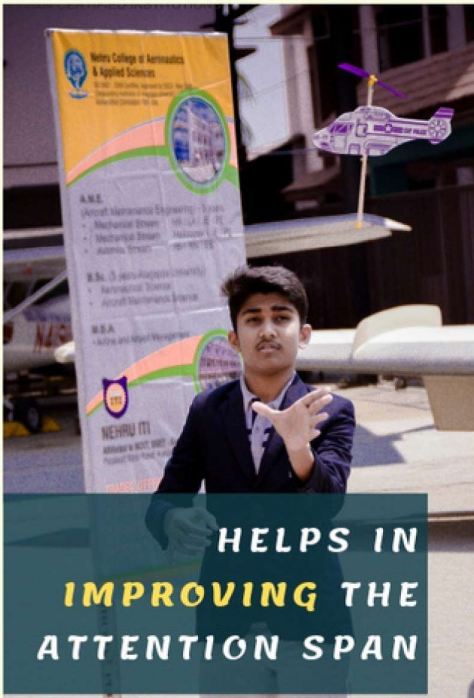
Wing



AERO CLUB ACTIVITY GALLERY



WOULD YOU LIKE TO TRANSFORM STUDENT
LEARNING FROM **ROTE TO REAL** ?



HELPS IN
IMPROVING THE
ATTENTION SPAN



WOULD YOU LIKE TO KICK START
STEM LEARNING IN YOUR SCHOOL?



WOULD YOU WANT
YOUR SCHOOL TO BE
DIFFERENTIATED FROM



EFFECTIVE ENGAGEMENT
TIME FOR CHILDREN



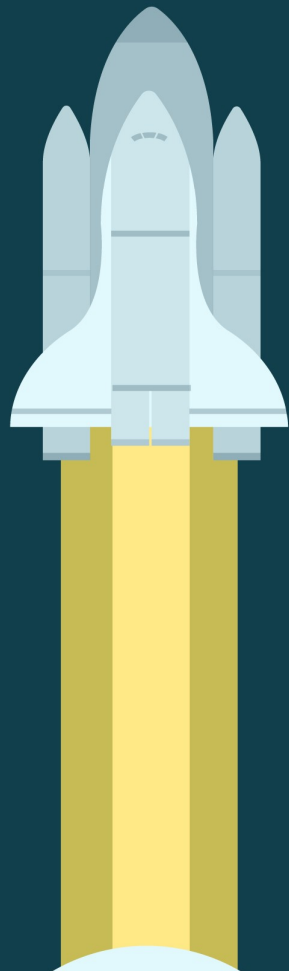
ENCOURAGE
INDEPENDENT
SKILLS PRACTICE



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



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/Baner



10

SPACE SHUTTLE

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



HOT AIR BALLOON

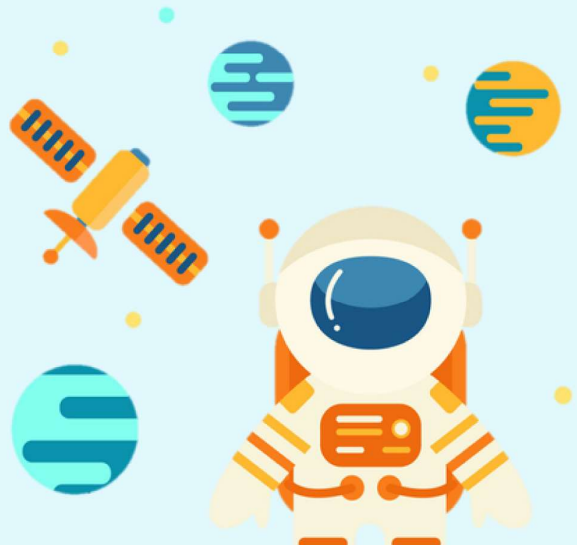
11

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

12

SPACE

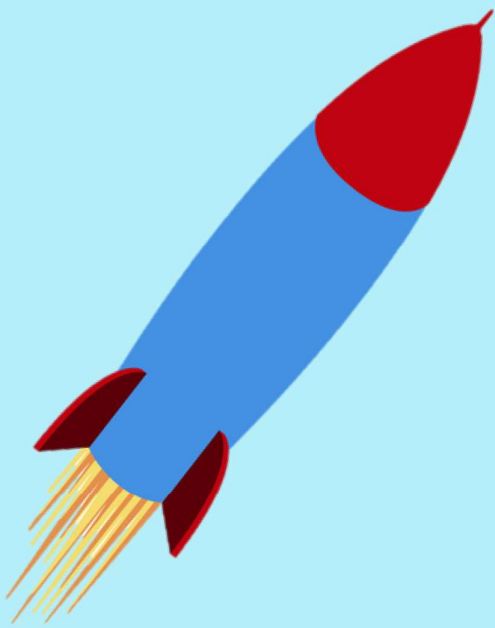
- *Astronaut*
- *Planets*
- *Satellite Types*
- *Facts about Space*



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*





Iragu *Foundation*

4, Corporation Building,
2nd street Dr. Radhakrishnan Road,
Gandhipuram, Coimbatore -12.



74 18 28 18 74

