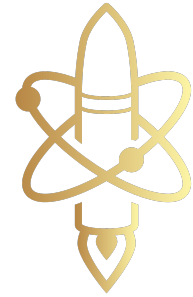


# **Rising Star Academy STEM COURSE FOR AGE 4-12**



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# Engineering Innovative

## DESIGNS Robotics



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**RATIO**  
**1:6-8**  
**3 Levels**  
**Age 4-12**



### CORE VALUES

Theory Taught and Application  
Teamwork & Collaboration  
Creative thinking  
Learning and Games

### Courses:



#### I. ROBOTICS

- ⚡ Lego Bricks provided
- ⚡ Bring Finished Products home
- ⚡ Fun Learning experience
- ⚡ Theory taught



#### II. ENGINEERING

- ⚡ Building robots which can move on land or water
- ⚡ Bring Finished Products Home
- ⚡ Fun Learning Experience
- ⚡ Theory taught (Solar Power)



#### III. LABORATORY

- ⚡ Explain complicated theory through Experiment
- ⚡ Hands-on experiment
- ⚡ We provide all Materials



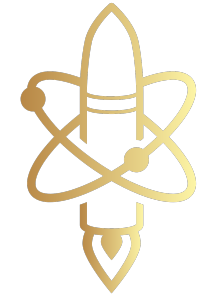
#### IV. Drone Camp

- Day 1: Understanding the structure
- Day 2- 5: Learning how to control the Drone
- Day 6-8: Fly days
- Day 9-10: Competition

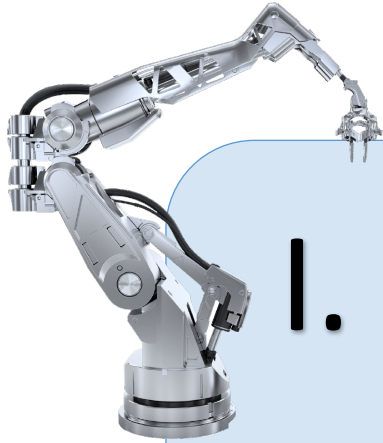
**FREE Drones!!**



**CALL US NOW!**  
**1800-88-0001**



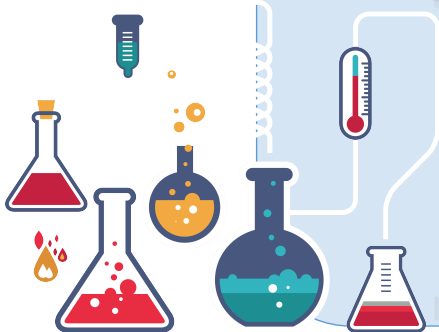
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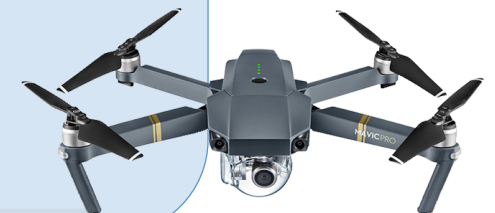
# I. Robotics and Engineering Classes



## II. Science Classes

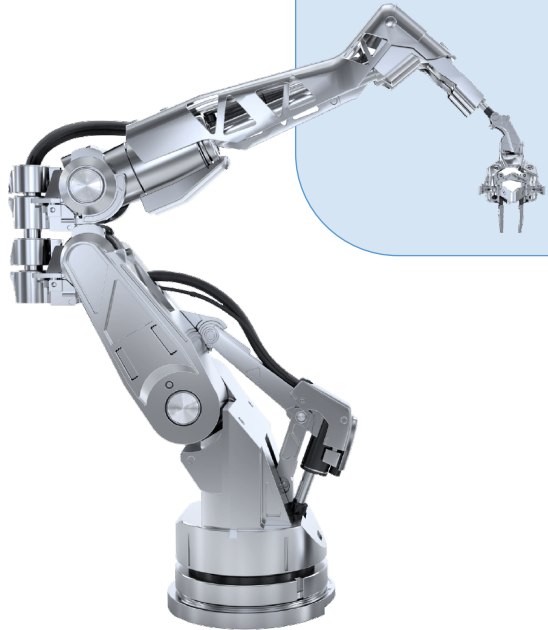


## III. Drone Camp





# I. Robotics and Engineering Classes





# Kids Robotics and Engineering Class (Aged 4-6)

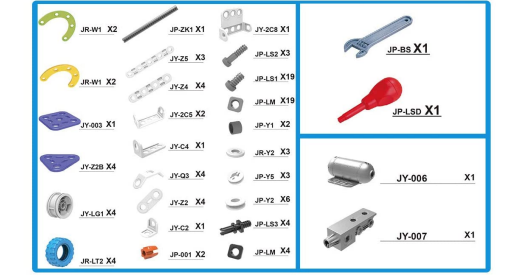
**Teaching Material:** Pakoo STEM Toys Kit,  
Giggleway Electric Motor Science Kits and  
Brickyard Building Blocks  
**(US-Origin)**

**Duration:** 2 Hours/Session  
**Time:** 1030-1230 (Every Monday)

**Class Schedule:** 27/7, 3/8, 10/8, 17/8, 24/8, 31/8  
(12 Hours /6 classes)

**Tuition:** \$3800  
(Including all notes and  
take-home robots)

**6 classes / course**





# Course Structure and expected learning outcome

- ✓ Engineering concepts, Circuit Building and Science experiments will be taught through block toys and wood puzzles
- ✓ Unique and customized notes will be used for teaching (Made by Rising Star Academy)
- ✓ Teaching Structures, Shape and simple machine: Constructing different structures using smart bricks
- ✓ Unleash child's Imagination and Creativity
- ✓ Keep your kids away from video games, phone and TV
- ✓ Improving their hand-eye coordination, Manipulative ability and train their logical thinking and problem-solving ability
- ✓ Building Teamwork and social skills
- ✓ Your kids will bring their toys home! Every kid would be given a set of stem toys/robots created by themselves

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# Intermediate Robotic and Engineering Class (Aged 7-9)



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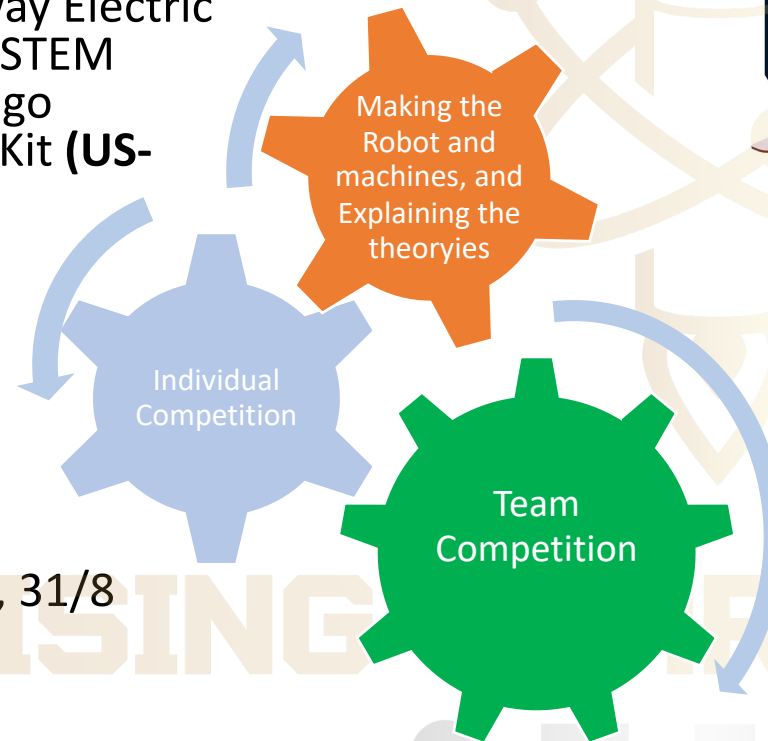
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**Teaching Material:** Giggleyway Electric Motor Science Kits, Sillbird STEM Building Robot and Klutz Lego Gadgets Science & Activity Kit (US-Origin)

**Duration:** 2 Hours/Session  
**Time:** 1400-1600  
(Every Monday)

**Class Schedule:**  
27/7, 3/8, 10/8, 17/8, 24/8, 31/8  
(12 Hours /6 classes)

**Tuition:** \$4000  
(Including all notes and take-home robots)



6 classes / course



# Course Structure and expected learning outcome

- ✓ Engineering concepts, Circuit Building, Science experiments and Robot control will be taught through block toys and wood puzzles
- ✓ Unique and customized notes will be used for teaching (Made by Rising Star Academy)
- ✓ Building Different Machines: Motorized simple and complex machines
- ✓ Robotics and Real life Application: Robot Structure and functioning
- ✓ Unleash child's Imagination and Creativity
- ✓ Keep your kids away from video games, phone and TV
- ✓ Improving their hand-eye coordination, Manipulative ability and train their logical thinking and problem-solving ability
- ✓ Building Teamwork and social skills
- ✓ Your kids will bring their toys home! Every kid would be given a set of stem toys/robots created by themselves





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# Advanced Robotic and Engineering Classes (Aged 10-12)

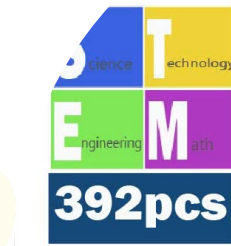
**Teaching Material:** 12-in-1 Solar Robot kits  
Elenco Teach Tec "Mech-5" Programmable  
Mechanical Robot Coding Kit and Mould King  
Remote Control Building Block Robot Set  
(US-Origin)

**Duration:** 2 Hours/Session

**Time:** 1600-1800 (Every Monday)

**Class Schedule:** 27/7, 3/8, 10/8, 17/8, 24/8, 31/8  
(12 Hours /6 classes)

**Tuition:** \$4200 (Including all notes and  
take-home robots)



6 classes / course

Theory and control

Coding Rim:  
(i) Backward coding,  
(ii) Assignment  
Coding,  
(iii) 45 and 90 degree  
coding Button  
Renewable  
Engineering  
→ Task with the  
assignment coding  
→ Individual  
Competition

Creating and controlling

Learning the  
theory of coding  
AND engineering  
theory  
  
Team Building for  
preparing later  
competitions

Team Competitions

Pass through  
Obstacles  
Football Match  
Passing Objects  
Mission Base





# Course Structure and expected learning outcome

- ✓ Engineering concepts, Robot control and mechanical coding will be taught through block toys and electronic basis
  - ✓ Unique and customized notes will be used for teaching (Made by Rising Star Academy).
  - ✓ renewable energy such as solar, wind, hydropower, and biomass. This course will help learners build models related to renewable energy
  - ✓ Unleash child's Imagination and Creativity
  - ✓ Mission based: Inspiring young engineers to learn about mechanical engineering principles and coding basics.
  - ✓ Improving their hand-eye coordination, Manipulative ability and train their logical thinking and problem-solving ability
  - ✓ Building Teamwork and social skills
  - ✓ Your kids will bring their toys home! Every kid would be given a set of stem toys/robots created by themselves
-

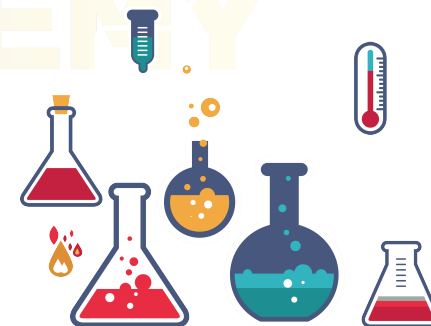


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## II. Science Classes

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# Why are our science classes suitable for your kid?

- ✓ Fun Experiments in order to assist their learning
  - ✓ Discover the amazing world of science and physics for kids with our awesome range of teaching material
  - ✓ Supplementary notes provided
  - ✓ Take your final products home!
  - ✓ Assess your kid progress through observation by teachers – no test involved but we know every kid's progress!
  - ✓ Interactive teaching style - Learning through games and experiments
  - ✓ We believe what kids experience and make first-hand is more effective than lecturing
-



# Topics



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**Static Electricity & Gravity:**  
Do opposite attract?  
What is general relativity ?

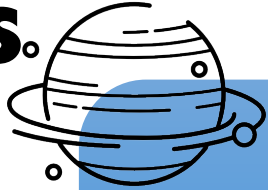
**Light, color and heat:**  
What colors absorb more heat?

**Electricity:**  
Current, Volts, circuits, electrons

**Gear Basics:**  
the basics of ratio, rotation, mechanical advantage and more



# Classes.



## Junior Scientist (Entry Level)

- Aged 4-6 (Class Ratio: 1:6-8)
- Exploring basis (Fun learning, develop their interest)
- Duration: 2 hours
- Time: 10:30-12:30 (Every Wednesday)
- Date: 29/7, 5/8, 12/8, 19/8, 26/8 (10 Hours /5 Classes)
- Price: \$2800 (Including all notes and take-home teaching material)

## Young Scientist (Intermediate Level)

- Aged 7-9 (Class Ratio: 1:6-10)
- Experimental basis (making assumption and Prove with theory support)
- Duration: 2 hours
- Time: 14:00-16:00 (Every Wednesday)
- Date: 29/7, 5/8, 12/8, 19/8, 26/8 (10 Hours /5 Classes)
- Price: \$3000 (Including all notes and take-home teaching material)



## Teen Scientist (Advanced level)

- Aged 10-12 (Class Ratio: 1:6-12)
- Practical basis (theory and presentation)
- Duration: 2 hours
- Time: 15:00-17:00 (Every Saturday)
- Date: 25/7, 1/8, 8/8, 15/6, 22/8, 29/8 (12 Hours/ 6 Classes)
- Price: \$3500 (Including all notes and take-home teaching material)



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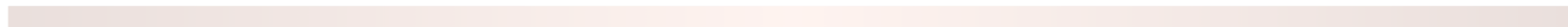
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# III. Drone Camp



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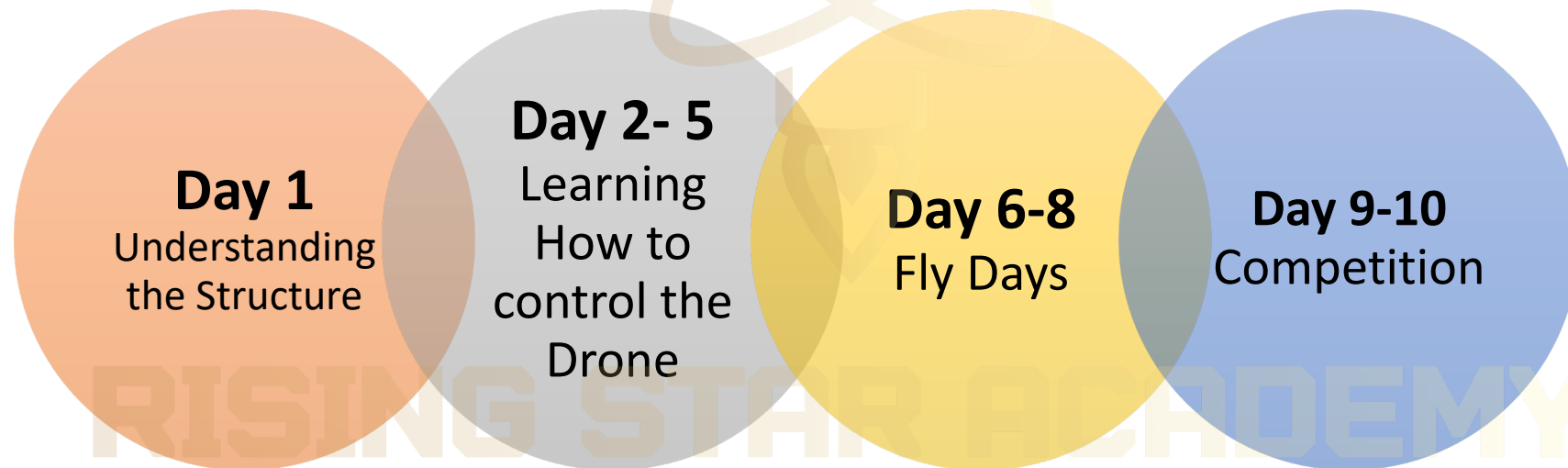




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# Drone Camp Schedule



**Aerial Photography:** Take aerial videos and photos with HD Camera (1280x720).

**360° Flips:** To do 360° flip to forward/backward/left/right.

**High/Low Speed Mode:**

Low speed mode for beginner & high speed mode for expert

**Headless Mode:** Fly the quadcopter just ignore the direction

**Altitude Hold Mode:**

Drone altitude specified a flight mode. Beginners easy to manipulate; Aerial photography more stable.

**One touch down**

Click the icon, the drone slowly landed on the ground until the motor stops running.

**One key take off**

Touch the icon, the blade start, and push the accelerator to take off.




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
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# Drone Camp


- **Duration:** 1 Hour
- **Day:** Every Thursday (1400-1500) and Saturday (1400-1500)
- **Age:** 7 or above
- We will provide a drone for each kid (you can bring it home!)
- **Drone Model:** Cheerwing CW4 RC Drone with 720P HD Camera
- **Tuition:** \$6000 (Inclusive of a Drone and notes)
- **Class Schedule:** (30/7, 1/8, 6/8, 8/8, 13/8, 15/8, 20/8, 22/8, 27/8, 29/8) (10 Hours / 10 Sessions)





 Aerial Photography. Take aerial videos and photos with HD Camera (1280x720).


 360° Flips. To do 360° flip to forward/backward/left/right.

 High/Low Speed Mode.  
Low speed mode for beginner & high speed mode for expert

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