

# Electronics & Circuits

Level 6 | 48 Hrs. | Age group : 10 yrs. +

**Description** The course give students an excellent platform to learn the fundamentals of Electronics by designing circuits in a simulating platform. Students can easily understand theoretical concepts by developing digital prototypes of circuits on this platform . The Course is full of interesting and real-life projects which help augment the creativity of kids to create masterpieces.

## Skills you will Develop

- ▼ Mathematical Skills
- ▼ Critical Thinking
- ▼ Complex problem-solving Skills
- ▼ Strong Knowledge of technology
- ▼ Decision Making Skills

## What will you Learn ?

- ▼ 55+ Projects of Electronics.
- ▼ Electronic & electrical concepts
- ▼ What is Electricity ?
- ▼ Types of switches
- ▼ Types of circuits
- ▼ Circuit Building
- ▼ Circuit Designing & Simulation
- ▼ Use of Semiconductors like IC, Transistors, Resistors, Capacitors etc

## Eligibility

- ▼ Interest towards electronics gadgets and technology
- ▼ Basic mathematical concepts

- ▼ Battery level indicator
- ▼ Automatic light detector
- ▼ Blink LED using 555 Timer
- ▼ Temperature sensing circuit
- ▼ Motion detector alarm
- ▼ Tilt sensor
- ▼ 0-99 counter by using jk flip flop

