

## TRAINING PROGRAM FOR SCHOOL STUDENTS

School Training Program provides a great opportunity for a school student to utilize your extra time in the right way. These training programs are designed in such a way that it makes learning by creating projects very easy for you. You will get a great learning experience by building projects as part of these programs. Each School Training Program is for a duration of 4 weeks. The classes would be held for 2 hours per day.

These School Training Programs are designed in a very practical way. Students will work on softwares and kits to build projects and they will learn in a systematic way. Ofcourse, theory portion will also be covered whenever needed to learn or to recap your memory but majority of the time would be spent on practicals.

Slog Solutions Pvt. Ltd. provides the best training programs for the school students in Dehradun, Uttarakhand.



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### SLOG SOLUTIONS PVT. LTD.

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Saffron Leaf, Dehradun.

ADDRESS

# BE AHEAD

## TECHNICAL TRAINING PROGRAM FOR SCHOOL STUDENTS

### Offered Technologies

- \* Python
- \* Java
- \* IOT (Internet Of Things)
- \* Robotics
- \* C & C++
- \* CAD
- \* Web Designing using HTML & CSS
- \* Web development using PHP & My SQL



# BE AHEAD

## Procedure of Learning?

### 1) ENROLL

Get the schedule of batch after registration.

### 2) LEARN

Learn directly from experts 1-1 in classes.

### 3) BUILD

Create fantastic projects.

### 4) CERTIFIED

Smart certificate to showcase skills & learning to the world.



## WHAT WILL YOU LEARN IN SLOG'S TRAINING PROGRAM FOR SCHOOL STUDENTS?

◆ Slog's School Training Courses are designed in such a way that will help you to develop your logical thinking skills. These courses help you to improve your creativity and problem solving skills. More importantly, they show you how 'fun' technology can be and will develop curiosity to explore further. The confidence gained as part of building projects will enable you to dream big and aspire to build world changing technologies/ companies of the future.

◆ All the classes would be taught in live 1:1 environment from our experts. So there is 100% attention and focus on you and you will enjoy the process of building projects.

◆ This training program of Slog Solutions is the best training program for the school students in Dehradun.

## WHAT YOU WILL GET BENEFITS.

- Training Certificate after completion of training
- Project Certificate
- Robotics Kits will be provided on chargeable basis
- Software Installation in student's system
- Deep Knowledge about the technology
- Future Scope in technology
- Interaction with professionals and industry experts
- Depth information of working environment in industry



## WHY YOU SHOULD LEARN SLOG'S SCHOOL TRAINING COURSES?

Nowadays every student wants to create a big technology. If you can develop the right curiosity and confidence at a young age, that will play a big role in defining your career trajectory, that's exactly how these courses are designed.

They help you to understand how technology is taking over the world and how to solve problems using it. More importantly, the classes will make you enjoy technology and build confidence to dream big.

Slog Solutions Private Limited is the only ISO, MCA & MSME approved training company in Dehradun. Slog Solutions Pvt. Ltd. provides the best training programs for the school students.

# [School Training Program Module - Robotics Package]

## [Robotics] Syllabus

### Institute Information

**Email**

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**Contact No.**

[7456000240/41]

**Office Location**

[Dehradun, Uttarakhand]

### General Information

**Duration**

[4 Weeks]

**Description**

[A technology specially used for automation.]

**Expectations and Goals**

[After Completion of training students will be able to create their own projects under the guidance of our experts.]

### Course Content

**Introduction to Embedded System**

- \* Introduction of Embedded
- \* History
- \* Basic components of embedded system
- \* Hardware classification of embedded system
- \* Advantage and disadvantage
- \* Difference between microprocessor and microcontroller
- \* Classification based on architecture
- \* Types of microcontrollers
- \* Memory classification
- \* Description and pin diagram of ATMEGA16
- \* Description of RAM and CPU registers
- \* Functions of SFR

**INTERFACING OF LED, SEVEN SEGMENT DISPLAY, LCD**

- \* Introduction of LEDs
- \* Interfacing circuit description of LEDs
- \* Programming of LEDs interfacing
- \* Introduction to 7 segment display
- \* Types of 7 segment display
- \* Interfacing circuit description of 7 segment display
- \* Programming of 7 segment display
- \* Introduction of 16\*2 LCD
- \* Commands and interfacing circuit description of 16\*2 LCD
- \* Programming of 16\*2 LCD

## **INTERFACING OF BUTTON, MOTORS, TIMER AND COUNTER PROGRAMMING**

- \* Introduction to buttons
- \* Interfacing and programming using button
- \* Introduction of motors
- \* Types of motors used in embedded system
- \* Programming and controlling of motors
- \* Introduction of timer and counter
- \* Description and programming of timer and counter.
- \* SERIAL COMMUNICATION
- \* Introduction to serial communication
- \* Interfacing and programming of USART

## **Hardware Programming**

- \* Interrupt Driven Programming
- \* Introduction to interrupts
- \* Types of interrupts
- \* Programming of interrupts
- \* interfacing of ADC and external memory
- \* Introduction to ADC
- \* Interfacing circuit of ADC
- \* Interfacing of temperature sensor (LM35)
- \* Introduction to external memory interfacing
- \* Introduction to i2c protocol