

CONTACT US



+91-7456000240/42/42/43



SLOG, Jain Complex, 2nd Floor,
General Mahadev Singh Road,
Opposite Hotel Saffron Leaf,
Dehradun, Uttarakhand 248001
www.slogsolutions.com

TOP 10 REASONS WHY SLOG SOLUTIONS IS EVERY STUDENT'S CHOICE

100 % Job Guarantee

We take every necessary step to get you a suitable job on successfully completing the course

Trained and Certified Faculty

Award winning and Industry benchmarked training faculty

Unique Teaching Methodology

Innovative methods of teaching that make learning fun and easy to remember

Practical training through labs

One computer per student that enables practical software based training to all students

Scenario based learning

Through case studies and real life project, we provide a real life problem solving opportunity

Personality Development Sessions

Enhance your confidence and ensures better job and higher salary prospects

De-stress with Yoga

When you are relaxed, you find it easy to learn more

Approval

A well established and ISO, MCA and MSME approved training company in Dehradun.

Industrial Visit

Students will get an industrial visit to learn the practical work and experience the real life based project

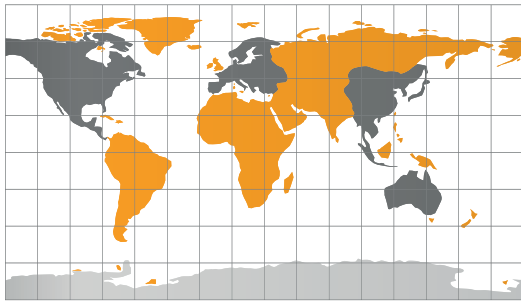
Student Industrial Trip

Students will have 2 day tour in Uttarakhand

100 % JOB GUARANTEED MODULE



1 YEAR AND 6 MONTHS MODULE



CERTIFICATION

One Diploma Certificate
5 Global Technical Training certificate
5 Project Certificate
Internship Certificate
Soft Skill Certification

Our Module have Two Phase.

Phase - I (240 Hours) & Phase-II (240 Hours)

Phase - I Contain Technical Part

Phase - II OJT (On Job Training) +
Learning skills

FEE:

For Detailed Fee Structure Please Visit
SLOG Campus.

TERMS AND CONDITIONS

For Detailed Visit SLOG Campus or
Call us at 7456000240/41.42



MODULE - 1 - CIVIL CAD PACKAGE - Content of Phase-I (320hrs.)

AutoCAD- Planning & Survey (70 Hours)
Revit- 3D modeling, Rendering, V-Ray, Detailing (70 Hours)
STAAD Pro- Structure analysis and Detailing, Detail drawings (50 Hours)
Estimation- Detail cost and estimation of building (40 Hours)
Primavera- Project Management (50 Hours)
PDP- Personality Development Program (20 Hours)
Interview facing skill development- Technical and Professional (10 Hours)
Resume writing (10 Hours)

MODULE - II MECHANICAL CAD PACKAGE - Content of Phase-I (320 Hrs.)

AutoCAD- Drafting & Isometric (60 Hours)
Solidworks- 3D modeling, detailing (60 Hours)
CATIA- 3D modeling, detailing (80 Hours)
Ansys- Analysis, Detailing and Simulation (80 Hours)
PDP- Personality Development Program (20 Hours)
Interview facing skills development- Technical and Professional (10 Hrs)
Resume writing (10 Hours)

MODULE - III WEB DESIGNING & DEVELOPMENT USING PHP

Content of Phase - I (320 Hrs.)
HTML- Building base of website (30 Hours)
CSS- Beautify the HTML Content (60 Hours)
JS - Make website interactive (60 Hours)
PHP- To make website dynamic (90 Hours)
MY SQL- To store dynamic data (40 Hours)
PDP- Personality Development Program (20 Hours)
Interview facing skill development- Technical and Professional (10 Hours)
Resume writing (10 Hours)

MODULE - IV - INTERNET OF THINGS

Content of Phase-I (320 Hrs.)
IOT - A technology designed to automate the simple devices using Internet (90 Hours)
ROBOTICS- A technology specially used for automation (90 Hours)
Industrial Automation (100 Hours)
PDP- Personality Development Program (20 Hours)
Interview facing skill development- Technical and Professional (10 Hours)
Resume writing (10 Hours)

MODULE - IV - DIGITAL MARKETING & NETWORKING

Content of Phase-I (320 Hrs.)
SEO- Process of growing the quality and quantity of website traffic (60 Hrs)
SMO- Process to generate publicity to increase the awareness of a service (60 Hrs)
Networking - (50 Hrs)
CCNA- Beginner level certification in networking by Cisco (60 Hrs)
CCNP- Advance level certification in networking by Cisco (50 Hrs)
PDP- Personality Development Program (20 Hours)
Interview facing skill development- Technical and Professional (10 Hrs)
Resume writing (10 Hrs)

MODULE - 1 - AI & ML MODULE - Content of Phase-I (320hrs.)

Python- Programming language (40 Hours)
Numpy- Library used for scientific calculations (30 Hours)
Pandas- Library used for data manipulation & for data analysis (30 Hrs)
Python Sqlite3- Database used to store dynamic data (30 Hours)
SEABORN - Library for data visualisation (20 Hours)
MACHINE LEARNING - Technology used to train and test machine logical models (30 Hours)
DEEP LEARNING & NEURAL NETWORKS (50 Hrs)
ARTIFICIAL INTELLIGENCE (50 Hrs)
PDP- Personality Development Program (20 Hours)
Interview facing skill development- Technical & Professional (10 Hrs)
Resume writing (10 Hours)

Phase - II

(Common For All Modules)
On Job Training(OJT) (160 Hrs)



Get an EDGE over other STUDENTS with our EMPLOYABILITY TRAINING

In the real world, a winning personality is just as important as technical skills. We provide Technical industry based training and Personality Development programs in our courses. Our program focuses on enhancing their technical and communication skills. It includes extensive employability sessions such as mock interviews, thus ensuring that our students are industry ready at the completion of their course.

[Job Guarantee Training Program Module - IOT Package]

[INTERNET OF THINGS (IOT)] Syllabus

Institute Information

Email

[slog.doon@gmail.com]

Contact No.

[7456000240/41]

Office Location

[Dehradun, Uttarakhand]

General Information

Duration

[320 Hrs]

Description

[A technology designed to automate the simple devices using Internet]

Expectations and Goals

[After Completion of training students will be able to create their own projects and get job]

Technology Covered

[IOT, ROBOTICS, INDUSTRIAL AUTOMATION]

Course Content

IOT [90 Hrs]

- Introduction to IOT
- Building Blocks
- Characteristics and Levels of IOT devices - I am interesting!
- IOT/communication Protocols - Hola!
- Demystifying how the Internet works
- Hardware Stuff (Arduino UNO, Nano, Nodecmu and Ethernet Shield)
- Hardware - Shields (Wi-Fi ESP8266, RF)
- Software Stuff (Arduino IDE) lets Power and Play
- Hardware + Software = Magic ware. Light an LED
- Sensor - Motion Detector (who is there?)
- working with relays

- Working with a Sound Sensor
- Libraries (working with and installing them)
- Working with Ethernet Boards
- Working with Wi-Fi Boards
- Working with Segment Displays: Please enter your pin!
- Working with a number pad (what is your favorite number?)
- Soldering
- What is the Arduino language??? - Theory
- Syntax and structures (the bare minimum)
- Variables and Keywords
- Control Structures
- Arithmetic ,comparison and Boolean operators
- Basic Functions
- Cloud Platform (DB) for IOT - Basics
- Options - Carriots/Spark/Think speak/SAP HANA
- Temboo - Make a phone call and get pass code from the user
- Temboo - Send an email from your device directly
- Upload sensor values from Arduino to Carriots with Ethernet Shield
- Upload sensor values from nodemcu(esp8266) to Spark using WIFI
- Upload sensor values from nodemcu(esp8266) to Adafruit.io using WIFI
- Remotely control your board with a Android AP
- Control an Actual Light using an Android APP
- Smart lights and devices - Home Automation
- Designing Idea
- Hardware Required
- Circuit Diagram and PCB layout
- Code Logic - Build and Walk through
- Assembly /Soldering/Casing
- BLYNK Setup Instruction from BLYNK
- Motion detector with email notification - Building safety
- Designing Idea
- Circuit Diagram
- PCB Layout
- Assembly and Casing
- Code Logic - Build and Walk through
- Programming triggers from Carriots to Send email
- Panic alarm for the elderly - Healthcare industry
- Designing Idea

- Hardware Required
- Circuit Diagram and PCB Layout
- Assembly /Soldering/Casing
- Device Register and Triggering an email using Thinger.io
- Code Walkthrough
- Manufacturing
- Prototype to Pre-Product
- How to make a PCB - Using Fritzin
- Line up your CM and sell your products

ROBOTICS [90 Hrs]

- Introduction to Robotics
- DC electricity
- AC electricity
- Bonus lesson - AC with DC voltages
- Ohm's law and power
- Using multimeters
- Resistors
- Schematic diagrams and resistors in parallel
- Variable resistors
- Capacitors
- Diodes & LED's
- Bread boarding and hooking up LED's and diodes
- Microchips, and introduction to the 555 timer
- Troubleshooting
- Bonus lesson: Selecting a resistor to use with a diode
- 555 astable mode tone generator
- Using our handmade electronics
- Soldering 101
- Voltage dividers & Voltage Controlled Oscillators
- 555 Siren circuit
- Inductors
- Important ratings of resistors, capacitors and inductors
- Switches and relays
- Transistors: An introduction

- Heat sinks
- MOSFET transistors
- Pulse Width Modulation
- Servo motors & controller circuit
- Servos with variable resistors
- The H-bridge
- High Power switching with MOSFET's
- How servos work/Building your own servos
- Continuous rotation servos - hacking servo motors
- Dual power supplies and that mysterious ground
- Transistor amplifiers, Part I
- Transistor amplifiers, Part II: The "perfect" amplifier
- Operational Amplifiers: Introduction
- LM386 Audio amplifier
- Biofeedback and making your own sensors
- Differential and instrumentation amplifiers - bionics
- Muscle sensing & controlling servos with your muscles - troubleshooting
- Single supplies for Op-amps
- Frequency Amplification/Color Organ
- RGB LED's and color sensing
- Optoelectronics
- Zener Diodes
- Salvaging electronics
- Transformers: More than meets the eye!
- Center tapped transformers
- RMS?
- Power supplies: Building and hacking
- High power transmission

Industrial Automation [100 Hrs]

- Before we go further
- Current , Voltage and Resistance Part 1
- Current Voltage and Resistance Part 2
- AC VS DC
- Three Phase Systems
- Motors
- Power Supplies

- Fuses
- Circuit Breakers
- Relays
- Circuit Simulation Software Installation
- Simulating a Relay
- Contactors
- Simulating a Contactor
- Be Aware This Is Vital
- Buttons , Switches and Indicators
- Bus Bars
- Trip Curves
- Overloads and Over currents
- What to choose?
- MCCB
- ELCB-RCCB
- Choosing the main circuit breaker and its cable
- Motor Cable Sizing
- Motor Driving overview
- Direct Driving
- Direct Driving Design
- Simulating Direct Drive
- FW-BW Motor Driving Design
- Simulating FW-BW
- Star-Delta Motor Driving
- Simulating Star-Delta
- VFD
- Analog Vs Digital
- VFD Terminal Driving
- VFD Demo 1
- VFD Demo 2
- VFD Demo 3
- VFD Demo 4
- VFD Demo 5
- Soft Starters
- Limit Switches
- Level Sensors
- Temperature Sensors
- Flow Sensors
- Pressure Sensors
- Load Cells
- Current Transformers
- Input Voltage Troubleshoot
- DC Power Troubleshoot
- Tracing
- Motors Troubleshoot : Direct Drive
- Motors Troubleshoot : FW-BW Drive

- Motors Troubleshoot : Star-Delta Drive
- Motors Troubleshoot : VFD
- Electrical Panel Earthing Troubleshoot
- Relays Troubleshoot
- MCB ,MCCB ,And Cables Troubleshoot
- Digital Sensors Troubleshoot
- Analog Sensors Troubleshoot
- Digital IO Troubleshoot
- Analog IO Troubleshoot
- What is a PLC?
- PLC Extension Modules
- PLC Communication Bus
- Coil-Contact
- Latch-Unlatch
- Counters
- Timers
- Boolean Operations
- Move Blocks
- Limit Block
- Conditional Blocks
- Arithmetic Blocks
- Custom Function Blocks
- Multiple Instances Creation Problem
- Data Types in more details
- Why FBD?
- RS-SR Blocks
- Combinational Logic Design Problem Part 1
- Combinational Logic Design Problem Part 2
- Combining Ladder and FBD
- Why Structured Text
- Conditional Statements
- Combinational Logic
- Arrays
- Structures
- Finite State Machine Design Part 1
- Finite State machine design Part 2
- Combining ST and FBD
- Why CFC
- Inputs and outputs
- Labeled wiring
- Priority
- Monitor
- Creating Motor control user interface
- Analog Control
- Multi-state Objects
- Loop Animation , Rotation

- Encoded Animation , Linear
- Encoded Animation , Level
- Traces
- User Input
- Creating Multi-Page Interface
- Setting Up The Server
- Visualize with your phone and Web-browser

PDP- Personality Development Program [20 Hours]
Interview Facing Skill Development [10 Hours]
Resume Writing [10 Hours]