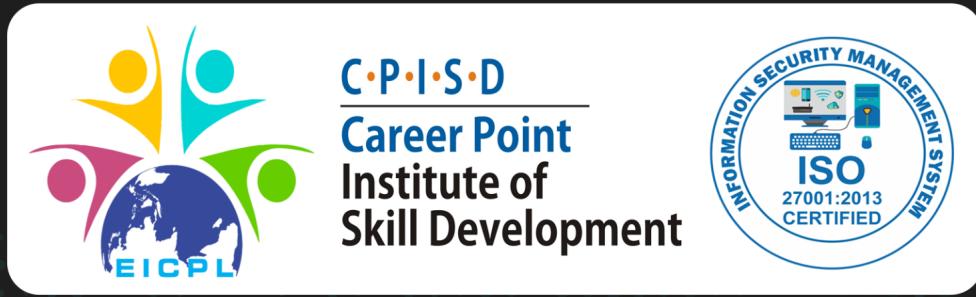


# INTERNET OF THINGS



Get certified by NSDC  
on Completion.

**4 days Online Workshop**

Starting from 21st Aug 2021



# Schedule

## Day 1

### Basics

#### 1. Introduction to IoT

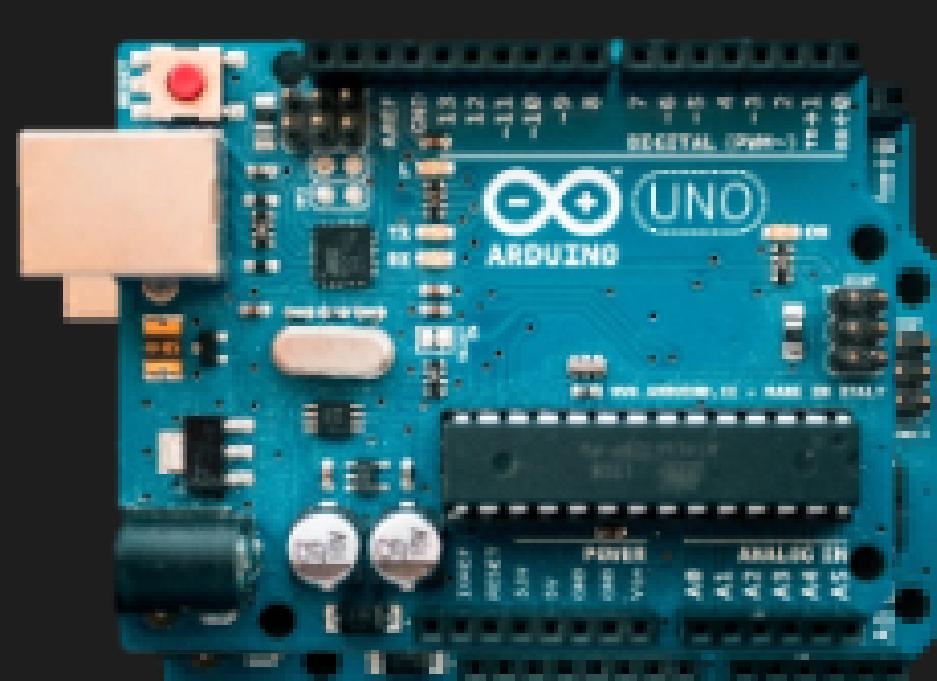
- Automation and Role of IoT.
- Scope for IoT in upcoming Years.
- Trends in IoT and Big Players

#### 2. Arduino Development

- What is Arduino?
- Different types of Arduino Boards.
- ESP8266 NodeMCU Details.

#### 3. Hands On Example

- Installing and Setting up Arduino IDE.
- Creating a Simple Sketch.
- LED blinking Example
- Experimenting with Buzzer.



# Schedule

## Day 2

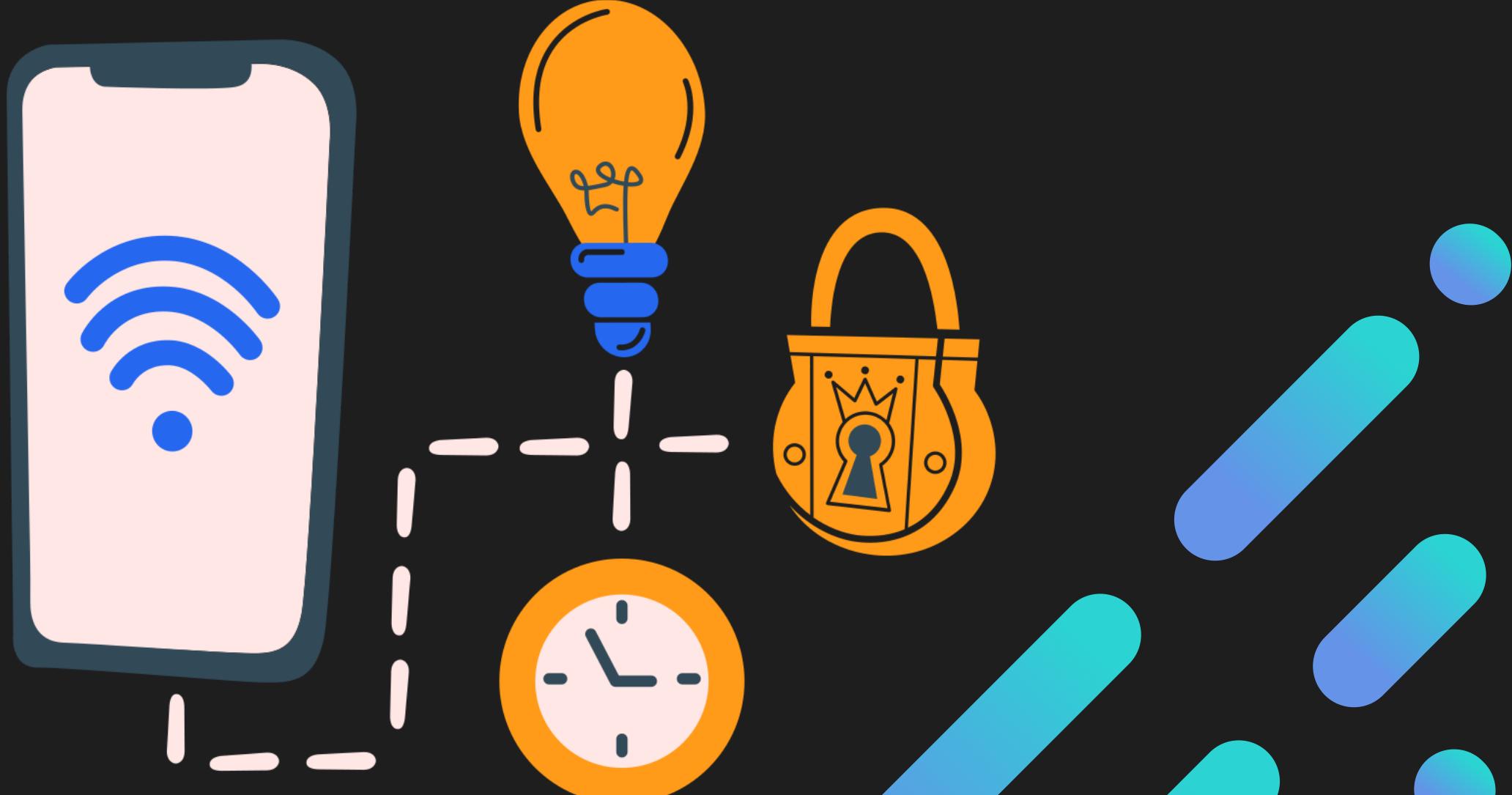
### Various Inputs and Outputs

#### 1. Understanding Inputs and Outputs

- Digital Pins and Analog Pins
- ADC and Sampling
- PWM Pulse with Modulation

#### 2. Experiments

- Working with Light Sensor (LDR)
- Pull Up and Pull Down
- Taking Digital Inputs from a Push Button.
- Controlling Brightness of LED with PWM.
- Working with Potentiometer.



# Schedule

## Day 3

### Cloud Computing Role in IoT

#### 1. Working With Relay Module

- Understanding Working principle Relay.
- Practical Example of Controlling Electrical Appliances with Relay.

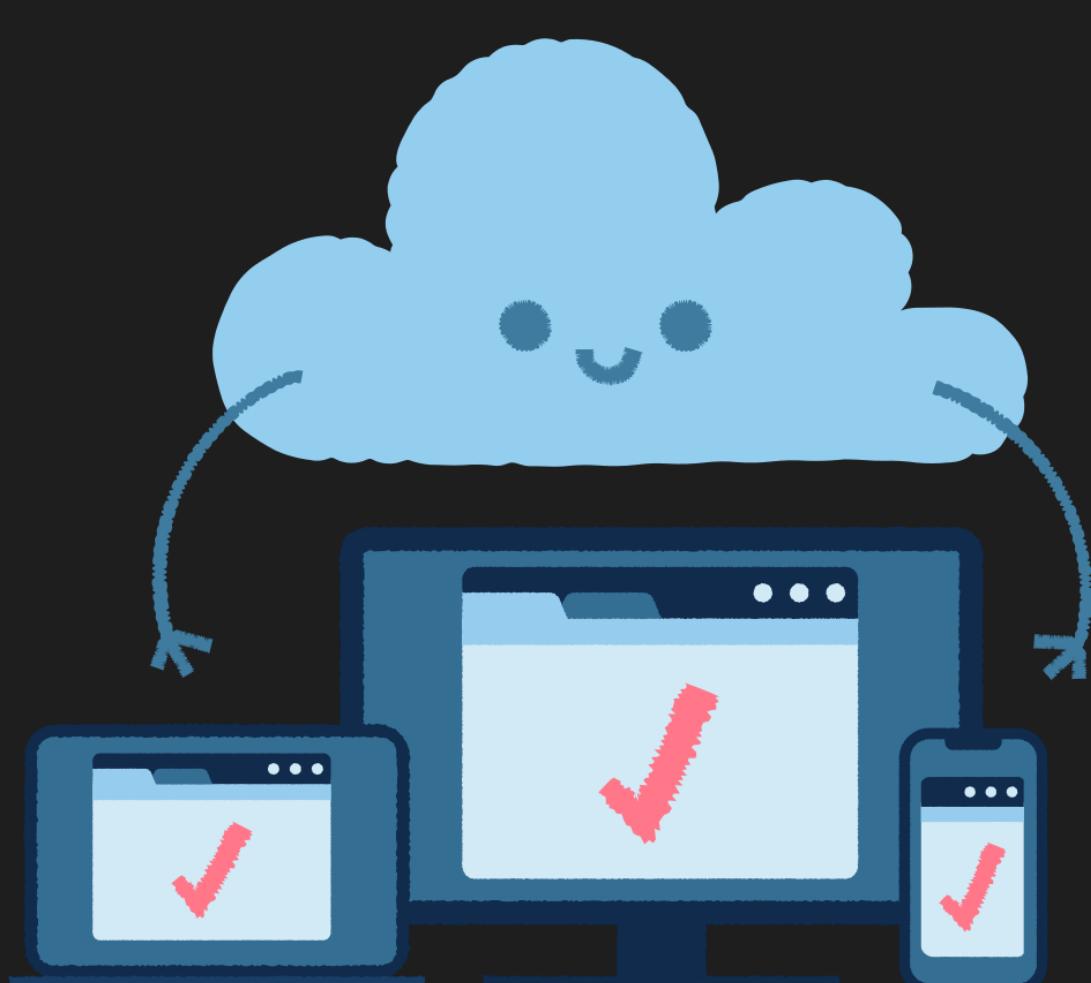


#### 2. Cloud Computing

- What is Cloud Computing?
- IoT Reference Architecture
- Introduction to Blynk.io

#### 3. Experimenting with Blynk

- Creating a new project in Blynk.
- Creating a new Sketch for Blynk.
- Play and with various options in Blynk.



# Schedule

## Day 4

### Google Home Automation BMP180 Sensor

#### 1. BMP180 Sensor

- Understanding BMP180 sensor.
- Sending sensors data to blynk cloud via Virtual Pins.

#### 2. Google Home Automation

- Working with blynk.io APIs
- Create a project with Relay in Blynk.
- Configure IFTTT and sending voice commands.

#### 3. Talk on Next Gen IoT

- Introduction to project Newklio

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