



DRIVES YOU TO INDUSTRY

# IOT and Beyond

LIVE ONLINE

## 2203

STUDENTS  
PLACED IN 2021

## 630+

MNCs HIRED  
IN 2021



All India Educational  
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## 100%

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# IOT AND BEYOND

COURSE DURATION

18 HOURS

## IOT CONTENTS

- Introduction to the Internet of Things
- History
- Definitions
- Application Areas
- Pitfalls
- Introduction to Raspberry Pi
- What is Raspberry Pi?
- Tools : Win32ImageWrite & SDFormatter
- Loading RaspbianOS image onSD CARD
- Connecting Powering up& configuring Raspberry Pi
- Installation, Powering up& configuring Raspberry Pi , updates and upgrade as a per requirement
- Hello World - program demo using C
- LEDblinking ----GPIO output test
- Switch - LED test ----GPIO input & output test
- IR-TxRx Sensortest ----GPIO input test
- Soil Moisture Sensor test ----GPIO input test



- Rain Sensor test---GPIO input test
- ADC MCP3204 test ----SPI with GPIO bit-banging method
- ADC MCP3204 test ----Using On-Chip SPI Peripheral through wiring Pi
- RTCDS1307 test ----Using On-Chip I2C Peripheral through wiring Pi
- Networking with Pi
- Client - Server programmingfor Automating Device/ sniffing Device State
- IoT
- Installing PubNub SDK for C language
- Creating Account with PubNub Cloud Server
- Usingkeys for publishing & subcribing through PubNub Cloud
- Hello World- program demo using PubNub Cloud
- Automating Devices using DTEs(PC/LAPTOP/MOBILE)  
VIA PUBNUB CLOUD
- Sniffing information using DTEs(PC/LAPTOP/MOBILE)  
VIA PUBNUB

