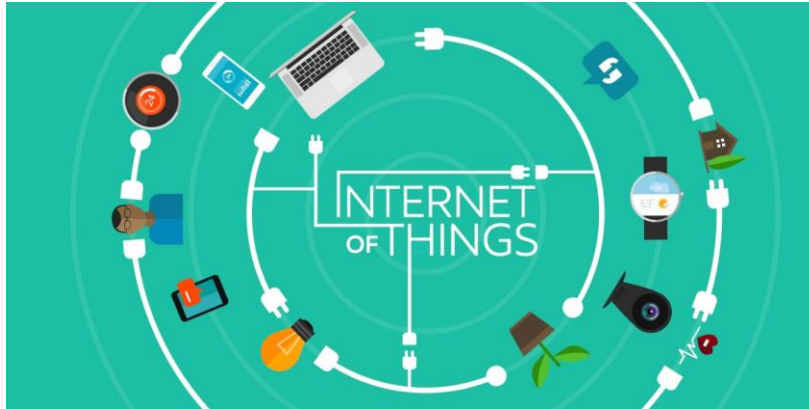




GetTutorialized Workshops Brochure-2017

Internet of Things with Arduino



Workshop course Content:

1. Introduction to Internet of Things
2. Introduction to Microcontrollers and Microprocessors
3. Microcontrollers and their types(All about Microcontrollers)
4. Introduction to Arduino
5. Why Arduino?
6. Types of Arduino
7. Pin architecture of Arduino
8. Programming a Arduino
9. Blinking a LED
10. Blinking a Series of LEDs
11. Using a button with Arduino
12. Using a potentiometer with Arduino
13. Introduction to sensors
14. Interfacing temperature with Arduino
15. Infrared Sensor/Ultrasonic Sensor
16. How a relay works
17. Introduction to Wifi Module (ESP8266)
18. What are AT commands
19. Introduction to Thingspeak
20. Syncing sensor's data to the Internet
21. Using multiple apps on thingspeak
22. Triggering a relay from the web server
23. Best projects based on IOT
24. Introduction To Fritzing
25. How to make schematic and Circuit diagrams?
26. Additions and improvisations

Workshop Kit includes:

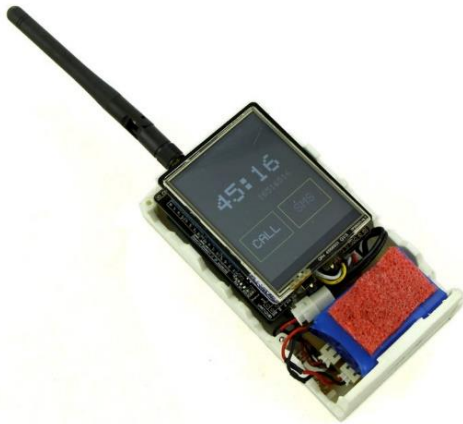
1. Arduino
2. Wifi Module ESP8266
3. SMPS power supply
4. Ultrasonic sensor
5. LM35 Temperature sensor
6. Relay
7. Breadboard
8. Jumpers
9. Tactile switch
10. Potentiometer
11. LED
12. Resistors

Group of 2-3 Participants – One laptop per group compulsory

Certificate of Course Completion will be provided.

Workshop Duration: 2 days (max 14 hours)

Mobile Making with Arduino



Workshop Content:

1. Introduction to Mobile GSM Technology.
2. Introduction to Microcontrollers.
3. Why Microcontrollers and Microprocessors?
4. Classification of GSM and generations.
5. Introduction to Hardware parts used in Mobile Making.
6. Terminologies and Jargons used in Mobile design.
7. Introduction to Microcontrollers and Microprocessors
8. Microcontrollers and their types(All about Microcontrollers)
9. Introduction to Arduino
10. The Arduino family
11. Types of Arduino
12. Pin architecture of Arduino
13. Programming a Arduino
14. Blinking a LED
15. Using a button with Arduino
16. Using a potentiometer with Arduino
17. Introduction to sensors
18. Infrared Sensor/Ultrasonic Sensor
19. Interfacing sensors with Arduino
20. Introduction to LCD displays
21. Interfacing the 16x2 display
22. Interfacing a matrix keypad (Alpha-numeric)
23. Using a Speaker With Arduino
24. Using a Mic with Arduino
25. Introduction to serial communication
26. Serial v/s Parallel Communication
27. Introduction to GSM technology
28. What are AT commands

29. Sending a call
30. Receiving a call
31. Sending a text
32. Receiving a text
33. Putting it together in one program
34. Talking to the Internet with GPRS
35. Documentation of Circuitry
36. Introduction To Fritzing
37. How to make schematic and Circuit diagrams?
38. Additions and improvisations

Workshop Kit includes:

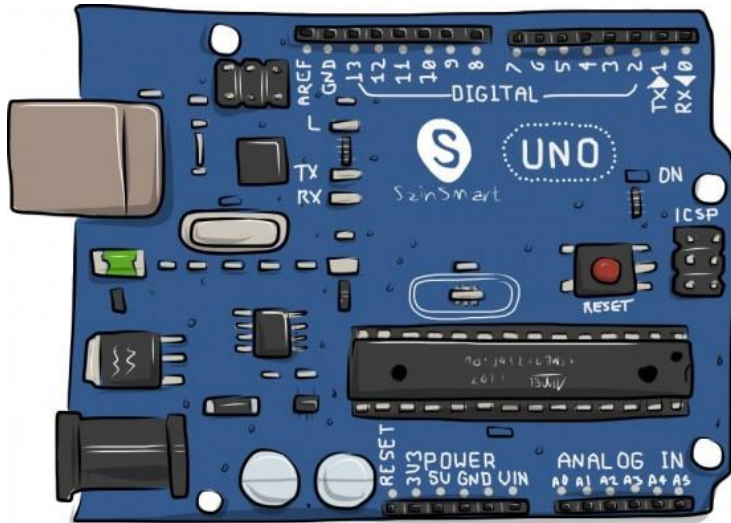
1. Arduino UNO
2. GSM Module Sim900a
3. LCD 16x2
4. Speaker 32 ohms
5. Electret Microphone
6. Ultrasonic/Infrared Sensor
7. Jumper Male to Female/ Male to Male
8. Tactile Switch x 2
9. Potentiometer
10. LED
11. Breadboard
12. Alpha numeric keypad
13. SMPS power supply
14. Relay

Group of 2-3 Participants – One laptop per group compulsory

Certificate of Course Completion will be provided.

Workshop Duration: 2 days (max 14 hours)

Electronics Hacking and Home Automation with Arduino



ARDUINO UNO

Workshop Content:

1. Introduction to Electronics Hacking and Tinkering
2. Introduction to Microcontrollers and Microprocessors
3. Microcontrollers and their types(All about Microcontrollers)
4. Introduction to Arduino
5. Why Arduino?
6. Types of Arduino
7. Pin architecture of Arduino
8. Programming a Arduino
9. Blinking a LED
10. Blinking a Series of LEDs
11. Introduction to LCD displays
12. Programming a 16x2 LCD display
13. Introduction to Infrared sensors
14. IR transmitter and Receiver
15. Coding a IR transmitter
16. Basics of Serial Communication
17. Introduction to Relays
18. Hacking into a Bulb/Tube light
19. Sensors for Home Automation

20. Introduction to Ultrasonic Sensors
21. Interfacing a Ultrasonic Sensors
22. More on Sensors
23. Documentation of Circuitry
24. Introduction to Fritzing

Workshop Kit includes:

1. Arduino UNO
2. Ultra-Sonic Sensor HC-SR04 x 2
3. Bluetooth Module HC-05
4. TSOP 1738
5. Infrared Remote
6. 16 x 2 LCD module
7. Relay Module 5volts DC to 230 Volts AC
8. Male to male/ Male to Female Jumpers
9. Bread Board
10. LED
11. Resistors

Group of 2-3 Participants – One laptop per group compulsory

Certificate of Course Completion will be provided.

Workshop Duration: 2 days (max 14 hours)

Wordpress - Website Making and How to earn Money Online (Hands-on)



Workshop Content

1. Introduction to Web Development.
 - Technologies used to make a website
 - Difference between a blog and self-hosted website
2. Requirements of making a website
 - Domain name**
 - Hosting/Server**
3. Introduction to WordPress
 - **Intro on various CMS**
 - What WordPress is?**
4. Installing WordPress on server
 - Buying domain and hosting
 - Linking Domain to server
 - Installing WordPress (1-click install and manual install)**
5. Learning WordPress control panel
 - Dashboard
 - Writing first post
 - Adding Media (Photo/Video)**
 - Categories, Tags
 - Creating pages
 - Themes
 - Dropdown menu
 - Plugins
 - Creating Users
 - And much more..

6. Taking Backup of website/blog
 - Automatic
 - Manual
7. Search Engine Optimization
 - Checking ranking, statistics
 - Google page rank, Alexa ranking
 - Improving Website's SEO
8. Monetizing your blog/website
 - Types of advertisements
 - Affiliate programs
 - Google AdSense and other ad networks
9. Other earning sources

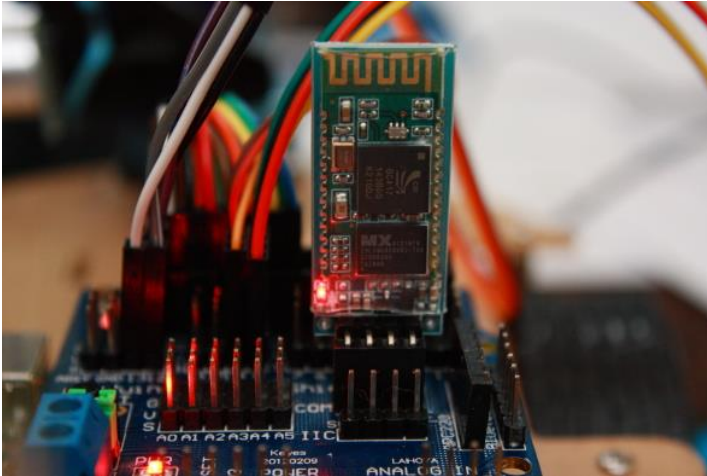
Participants are expected to bring their own Personal Computers as this

Workshop is hands on

If not then the college or the Organizing Committee will provide labs with Internet Facility

Workshop Duration: 2 days (max 14 hours)

Bluetooth Robot Control (With Android)



Workshop Content:

1. Introduction to Robotics Technology.
2. Introduction to Automation.
3. Why Robotics?
4. Classification of Robotics in the form of levels.
5. Introduction to Hardware parts used in Robotics.
6. Terminologies and Jargons used in Robotics.
7. Introduction to Microcontrollers and Microprocessors
8. Microcontrollers and their types(All about Microcontrollers)
9. Introduction to Arduino
10. Types of Arduino
11. **Pin architecture of Arduino**
12. **Programming a Arduino**
13. **Blinking a LED**
14. Introduction to Bluetooth Technology.
15. **Bluetooth Module HC-05**
16. **Interfacing a Bluetooth Module with Arduino**
17. Basics of Serial Communication
18. **Android App – Blu Control**
19. Controlling a LED through Bluetooth
20. **Introduction to Motor Driver IC**
21. Programming a Motor
22. Assembly of Robot.
23. **Programming of Bluetooth Controlled Bot**
24. **Explanation of Control Electronics.**
25. Documentation of Circuitry

26. Introduction To Fritzing
27. Future Scope

Workshop Kit includes:

1. Chassis x 1
2. Motors x 2
3. Wheels x 4
4. 10 Pin male to male –Connecting jumpers
5. Arduino UNO
6. Bluetooth Module HC-05
7. Motor Driver Module 293 d
8. Breadboard
9. Battery 12 volts
10. SMPS 12 volts
11. Screw Driver.

Group of 2-3Participants

Workshop Duration:

6-8 Hours

Contact Details:

Karan Makharia: +91 9324479670 / +91 8793849065
KshitijDadhekar: +91 8082026640
gettutorialized@gmail.com