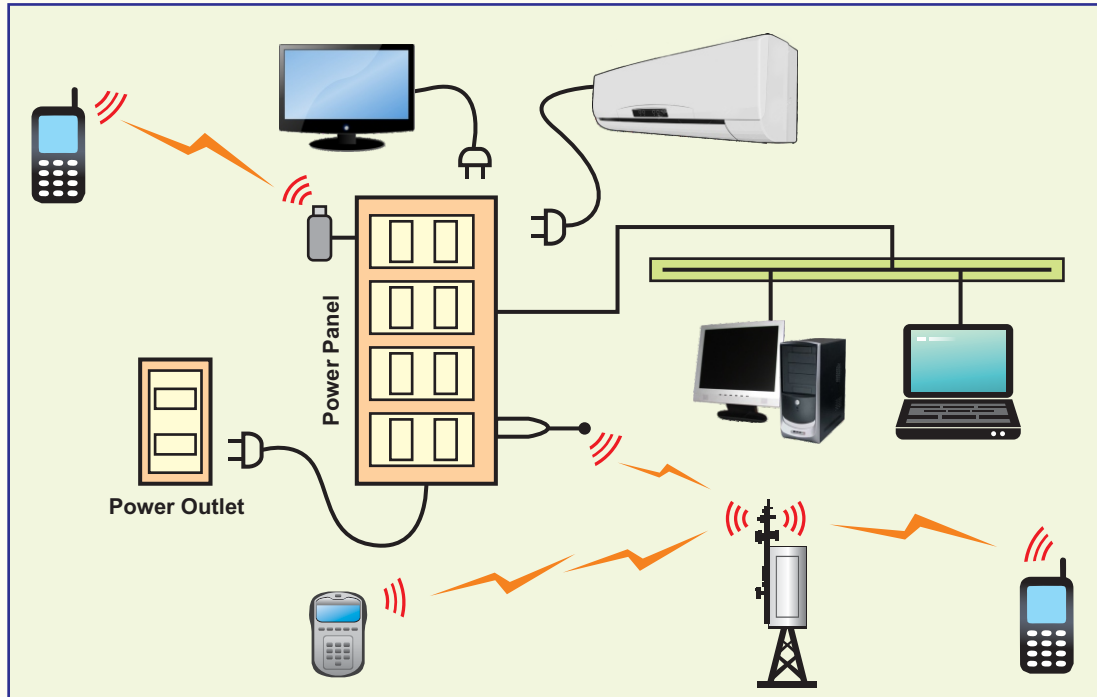




SMART REMOTE CONTROL IoT TRAINER

MODEL- S-REMOTE-IoT100

This trainer has been designed with a view to provide theoretical & practical knowledge of Smart Remote Control IoT.



What is Smart Remote Control IoT

The Smart Remote Internet of Things is nothing but to control different home appliances remotely through Internet at home or works.

- Smart Remote Control IoT is used to control devices at home like electrical light, electric fan, air conditioner and refrigerator etc. These are to be controlled and operated by human beings. However this may not be possible all the time. Operator may not be at home and may be somewhere in a different place and if the necessity arises to control these home appliances there must be some source to control and monitor the home appliances. This necessity made the invention of Smart Remote Control IoT which controls the home appliances remotely either by Mobile - SMS or by Internet.
- The main advantages of this system is reducing power wastage saving time and also for security purposes. One of the security applications is automation of door locks. This door locks can be operated using this smart phone application. Operator can control switching appliances that is they can be made on or off, can change temperature of room from any place, control lighting and can perform many other tasks.

Sigma Trainers and Kits
E-113, Jai Ambe Nagar,
Near Udgam School, Thaltej,
AHMEDABAD - 380054.
INDIA.

Phone(O): +91-79-26852427/ 26850829
Phone(F): +91-79-26767512/ 26767648
Fax : +91-79-26840290/ 26840290
Mobile : +91-9824001168
Email : sales@sigmatrainers.com
Web : www.sigmatrainers.com

Dealer:-

SPECIFICATIONS

1. Hardware

| | |
|--------------------------------|-------------------------|
| Arduino Board | : 1 No. |
| GPRS / GSM Shield with Antenna | : 1 No. |
| Relay Shield | : 1 No. |
| Home System Module | : 1 No. |
| Cluster Header Zigbee Module | : 1 No. |
| SIM Card | : To be provided by you |

2. Software

| | |
|--|---------|
| Visual studio 2010 Express | : 1 No. |
| Silver light 4 tools for Visual studio | : 1 No. |
| C++ Application Program | : 1 No. |
| Applications Codes CD | : 1 No. |

3. Accessories

| | |
|-----------------------------|-----------|
| USB Cables | : 2 Nos |
| Rs232 Cables | : 2 Nos. |
| Pdf Ebooks on IoT Subject | : 10 Nos. |
| Mp4 Lectures on WSN Subject | : 40 Nos. |
| Practical Manual | : 1 No. |

EXPERIMENTS

1. To Study Theory and Block Diagram of Remote Control IoT
2. Understanding Network Connection of Home Appliances
3. To Study GSM AT Commands
4. To Study ZigBee Wireless Transmitter Nodes
5. To Study ZigBee Wireless Router and Co-Ordinator
6. To install and Configure ZigBee Wireless Transmitter Nodes
7. To install and Configure ZigBee Wireless Router and Co-Ordinator
8. To Control Lamp / Tubelight by SMS
9. To Control Fan by SMS
10. To Make AC ON / OFF By SMS
11. To Make Refrigerator ON / OFF By SMS
12. To Control Lamp / Tubelight by Internet Web command
13. To Control Fan by Internet Web command
14. To Make AC ON / OFF By Internet Web command
15. To Make Refrigerator ON / OFF By Internet Web command
16. To control sensors by LAN and WAN, Wireless LAN, Internet remotely and get the data.
17. To write a Program in C++ for programming of different types Nodes and Routers
18. To understand different types of Protocols and Commands
19. To demonstrate and understand different types of faults