

Karmaveer Bhaurao Patil College of Engineering, Satara

Class: T Y (Electronics)

Course: CNCC

Project Based Learning

1. Prepare the Network diagram of the LAN with 5/10 PC including, implement the network of at least 5 PCs in a network, provide the internet connectivity and also explore the different options such as DHCP.
2. Prepare the network diagram of the wireless network to provide wifi access, implement the wireless network (Wi-Fi) to ensure the wireless connectivity provided to every device in the vicinity.
3. Install the wireshark and study the different options in the wireshark, also implement the network of small size to demonstrate your understanding.
4. Install the packet tracer and study the different options in the wireshark, also implement the network of small size to demonstrate your understanding.
5. Implement the the network on the wireshark and analyse the different parameters
6. Implement the network on the packet tracer and analyze the different parameters.
7. Study of the different vendors manufacturing the Switches and routers, firewalls for wired and wireless networks. List the vendor with model and specification. Also explain the methodology of the selection of the switch/router which is appropriate for the particular network.
8. Visit to the IT Cell (Computer center) of the institute and analysis of the institute network.
9. Study of the different bluetooth standards and state of the art in the bluetooth versions and technologies.
10. Study of the different Zigbee standards and state of the art in the zigbee technologies.

11. Study of the different cloud service providers based on the different cloud services.