Projects   
  
1 to 5: design and implementation

6 and 7: literature review

8 to 10: design and implementation

11 and 12: design and simulation

1 to 7 are for science

8 to 12 are for engineering

1. A web based clinical decision support system for management of diabetes  
2. An E- learning platform for basic sciences. Physics chemistry and mathematics as case study

3. A computer-based scrabble game.

4. A computer-based automobile fault diagnosis system

5. A text to speech application for vision incurred student

6. Review data mining techniques for telecommunication company in Nigeria

7. Ethical hacking and cyber security in Nigeria telecommunication industry. Issues and solutions

8. An IOT based remote patient monitoring system

9. An automobile tracking system

10. An ADC converter and DAC.

11. A simple processor with the following specification

a. 16-bit registers

b. A multiplexer

c. Adder/ subtraction unit

d. A finite state machine-based control unit.

A block diagrams

A narrative of the mode of operation   
A VHDL code

A Quartus II CAD (computer assisted design) based simulation

12. A digital computer network for typical smart campus   
Assume the following:

* User distribution: Assume that 10 000 users can access the network at a time. 35% of the user are mobile phone user, 25% own a laptop, 5% own a desktop PC, 25% own digital cameras that monitor classrooms, 10% are any other digital devices that runs a protocol compatible with network
* Protocols: Assume that the network runs all the following protocols.

FTP, HTTP, TCP/IP and other known protocols for smooth running of the network

* That the network is configured as WAN as subnetting extensively employed in its design
* The geographical area coverage of the network and the geographical area of clients devices are in square kilometers
* Network devices i.e Gateways, switches, Routers, access points, radios, services, transmission media, ETC are all cisco model in each case.
* Investigate the following

1. Speed of the network
2. The delay in the network
3. The throughput in the network
4. Packet delivery in the network
5. Load estimation in the network

Recommended Package

Cisco packet tracer

NS-3