

Date: 5th August 2019

Workshop on Hands on Computer Network

Speaker: Er. Ashraf Siddiqui

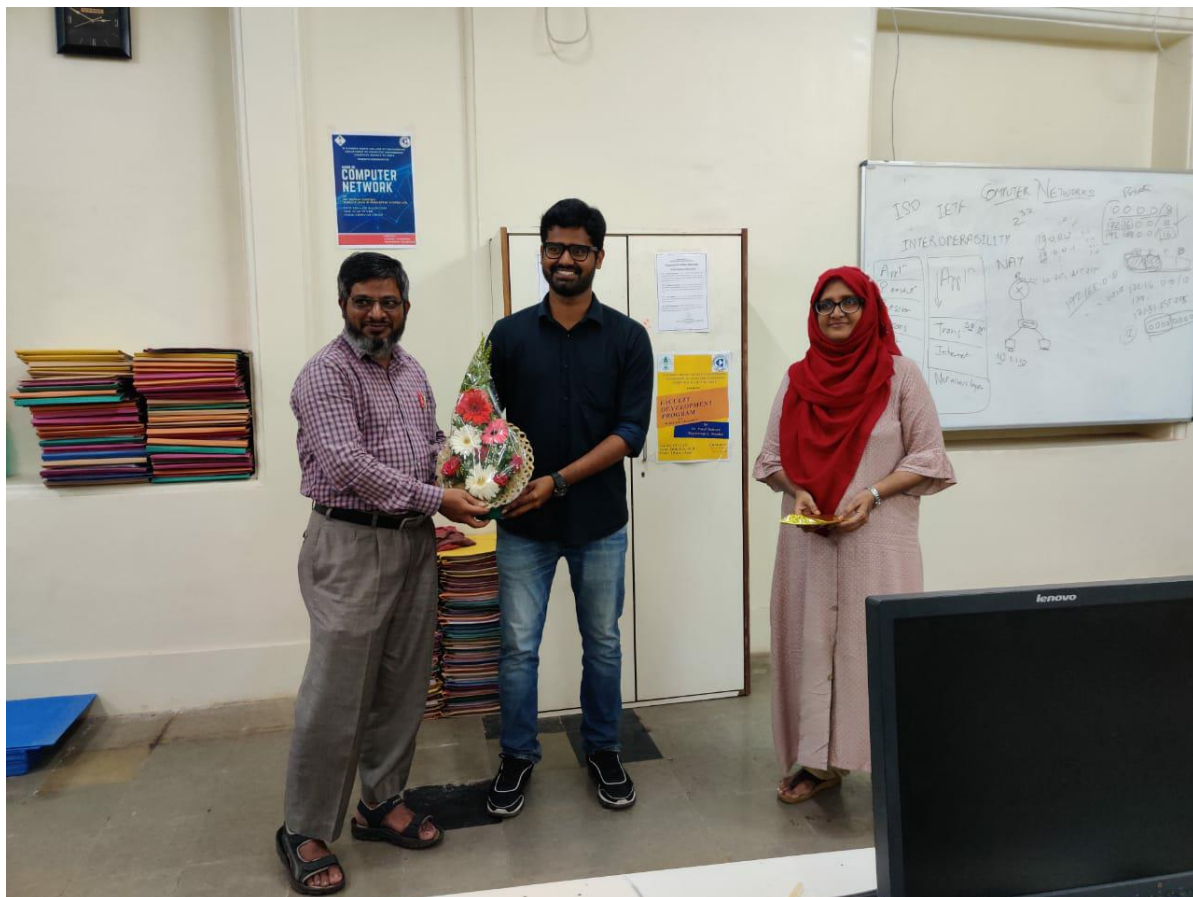
Faculty Coordinator: Er. Farhana Siddiqui

Date & Time: 14th and 15th September, 2019 from 10:00 am to 5:00 pm

Venue: Computer Center

A guest lecture on “Hands on Computer Network” was held on : 14th and 15th September 2019 from 10:00 am to 5:00 pm. The guest lecture has been organized by the Computer Engineering department in association with CSI to provide the students with an opportunity to get an in depth knowledge about the network security and its applications in the computer engineering field.

The guest lecture began with welcome address by the faculty coordinator Farhana Siddiqui. She has introduced and welcomed Er. Ashraf Siddiqui, Module Lead in Persistent Systems Ltd, resource person to deliver the lecture on the behalf of the entire Company.



Topics covered:

- Layered Architecture and their importance
- Packet flow in an Ethernet Network
- Common Protocols(IP/TCP/UDP/ICMP/DNS/DHCP)
- Security in Networks
- Wire shark
- Gns3
- Packet sniffing
- Data transfer Lan Network
- Telnet

Firstly Er.Ashraf Siddiqui introduced himself and started his session by giving us the guidance about the computer field,scope and competition in the upcoming future and what things should be done to stand out of the community and shape our future.

Then he started the Networking session from the very basics things and went to the advanced networking. Layered architecture that is the Open Source Interconnection (OSI) model and explained the various common protocols like IP,TCP,UDP,ICMP,DNS,etc.

After the basic explanation,he introduced us to how the data is transmitted i.e packet transfer in ethernet network.After the break session the Packet transfer was then practically implemented by all the students which results in a great practical experience among the students. While implementing the packet transfer he also explained the concept of wireshark which is nothing but show the traces of the packet that is being transferred. Wireshark shows the complete information about the source IP, destination IP, comments at each steps,etc.

The session was continued with the concept of telnet, steps to ensure telnet connection, it's advantages.The telnet connection was then practically implemented by the students which make them access to another's machine directory using the IP address and how one can access data using telnet and IP by being mobile and accessing the machines.



Guest Profile:

Er. Ashraf Siddiqui, Module Lead in Persistent Systems Ltd, is a veteran with 4 years of Industrial experience in Infosys Ltd. The session was then continued by Er. Ashraf Siddiqui, who began with an introduction to what is Network and how important it is to secure our network from unauthorized persons. Following which, Er. Ashraf Siddiqui, shed light on the various Network Threads ,Vulnerability of the Network, Intrusion Detection System and Firewall concepts .The session ended with hearty thanks and presenting of a memento to Er. Ashraf Siddiqui, by Er. Asad (Computer Engg Dept). In appreciation for taking the time out to educate the students on Network Security. He thanked the Department for providing the platform to organize guest lectures on innovative technologies. He appreciated Faculty members, student's volunteers and participants for the successful conduction of the event.