# SNS COLLEGE OF TECHNOLOGY

### Coimbatore-37.
### An Autonomous Institution

**COURSE NAME : 19CSB301 COMPUTER NETWORKS**

**III YEAR/ V SEMESTER**

**UNIT – I  FUNDAMENTALS AND PHYSICAL LAYER**

**Topic: Introduction – Building a network - Requirements**

Dr.V.Savitha
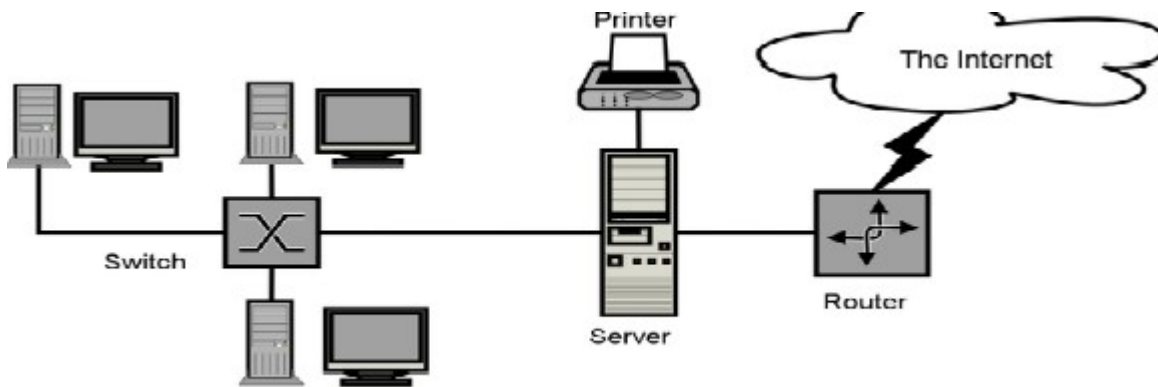
Associate Professor

Department of Computer Science and Engineering

# Introduction – Building a network

- A computer network or data network → a telecommunications network which allows computers to **exchange data**

- along **network links** (data connections)

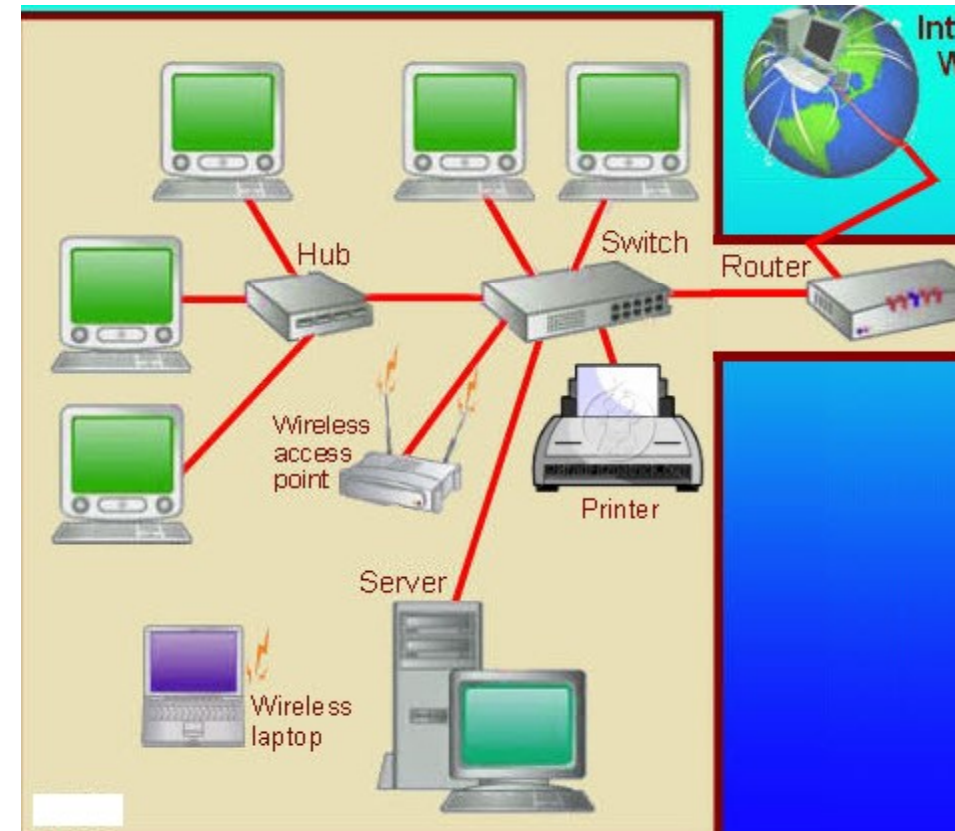- In the form of **packets**

- **Internet**

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**Four major categories of physical components in a computer network**

- Personal computers (PCs)

- Interconnections - Network interface cards (NICs)

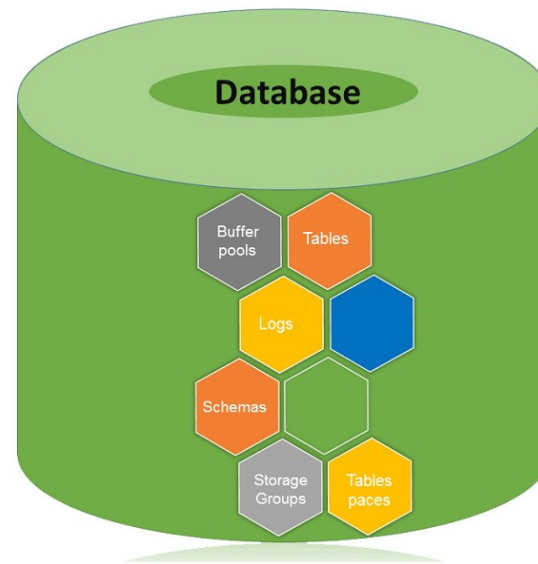  Network media

- Switches

- Routers

# **Introduction –** Network User Applications

- **E-mail**

- **Web Browser**

- **Instant messaging**

- **Collaboration**

- **Database**

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- **An Application Programmer**

- **A network designer**



- **A network Operator**

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# References

- Behrouz A. Forouzan, "Data communication and Networking", Fourth Edition, Tata McGraw – Hill, 2011.

- http://www.cs.iit.edu/~cs760/cs477/477week1.pdf

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