SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING-IOT Including CS&BCT

COURSE NAME : **19SB402**- NETWORKING AND CYBERSECURITY

II YEAR / III SEMESTER

Unit I- **NETWORK AND OSI LAYER**

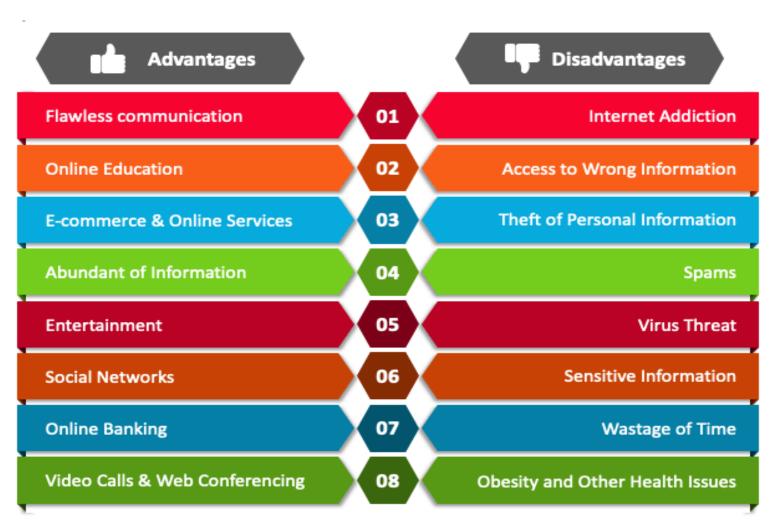Topic : **Internet & Connection oriented Network**

INTERNET

➢ It is a worldwide system of Computer network.

➢ Network of Network's and Network allows to exchange of data between two or more Computes.

➢ It connect the billions of Computer network.

➢ It use the Standard IP (TCP/IP).

➢ Computer internet is identified by a unique id called IP Address

➢ IP Address is a unique numbers.

➢ It is used to identity the computer Location.

➢ 1969 Introduce.

INTERNET

	Advantages				Disadvantages
Flawless communication		**01**		Internet Addiction	
Online Education		**02**		Access to Wrong Information	
E-commerce & Online Services		**03**		Theft of Personal Information	
Abundant of Information		**04**		Spams	
Entertainment		**05**		Virus Threat	
Social Networks		**06**		Sensitive Information	
Online Banking		**07**		Wastage of Time	
Video Calls & Web Conferencing		**08**		Obesity and Other Health Issues	

Connection oriented Network

- ➢ It is a technique.
- ➢ This technique is used transport OR send data at Session layer.
- ➢ The data Streams (or) Packets are transferred (or) delivered to receiver.

Operations:

1. Establishing Connection.
2. Transferring data (or) msg.
3. Releasing the Connection.

There are different ways of Connection.
1. Circuit Switched Connection(DEDICATED ROUTE)
2. Virtual circuit Switched Connection(PREPLANNED ROUTE)

Connection oriented Network Cont..

Circuit Switched Connection:

- ➢ In this, the dedicated route is established among Sender & receiver.

- ➢ The hole data is sent through it.

- ➢ The dedicated physical route (or) Path on Circuit is established among all Communication nodes, and then sent data.

Virtual circuit Switched Connection:

- ➢ In this, the pre-planned route (or) Path is established before data (or) before data (or) msg are transferred (or) sent.

Connection oriented Network Cont..

Types:

1. Reliable Msg stream -> Sequence of pages.

2. Reliable Byte stream -> Songs Download.

3. Unreliable Connection -> VOIP (Voice over IP)

Any Queries

Thank You!