

VedantSri
Varanasi Computer Institute



INTERNET NOTES (ADCA)

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Unit 1: Introduction to Internet

What is Internet

The Internet is a global network of computers and mobile devices connected to each other to share information and data. With the help of the Internet, we can send emails, browse websites, shop online, attend online classes, and communicate with people worldwide.

History of Internet

- In the 1960s, the Internet started in the USA as ARPANET
- Initially used only by government and educational institutions
- After 1990, it became available to the general public
- Today, the Internet is used all over the world

Uses of Internet

- **Education:** Online classes, e-books, research
- **Business:** Online marketing, video meetings
- **Banking:** Net banking, UPI transactions
- **Entertainment:** YouTube, movies, online games
- **Communication:** Email, chat, video calls

Features of Internet

- Available 24×7
- Fast and easy access to information
- Global connectivity
- Saves time and effort

Internet vs Intranet vs Extranet

- **Internet:** Public network available to everyone
- **Intranet:** Private network used within an organization

- **Extranet:** Network accessible to limited external users

Unit 2: Basic Internet Terminology

Website

A collection of web pages available on the Internet.

Webpage

A single page of a website such as Home, About, or Contact page.

Homepage

The first or main page of a website.

URL (Uniform Resource Locator)

The complete address of a website.

Example: <https://www.google.com>

Domain Name

The name of a website.

Example: google.com

IP Address

A unique numerical address assigned to every device connected to the Internet.

Example: 192.168.1.1

Web Server

A computer where website files and data are stored.

Client-Server Concept

The client (user) sends a request, and the server responds with information.

Unit 3: Types of Internet Connections

Dial-up Connection

A slow Internet connection using telephone lines.

Broadband Connection

A fast and always-on Internet connection.

Wi-Fi

A wireless Internet connection.

Mobile Internet

Internet access through mobile networks such as 3G, 4G, and 5G.

Optical Fiber

The fastest Internet technology using fiber-optic cables.

Hotspot

Sharing Internet from a mobile device with other devices.

Unit 4: Web Browser

What is a Web Browser

A web browser is software used to access and view websites on the Internet.

Popular Web Browsers

- Google Chrome
- Mozilla Firefox

- Microsoft Edge
- Safari

Parts of a Web Browser

- **Address Bar:** Used to type the website URL
- **Tab:** Used to open multiple pages at once
- **Bookmark:** Saves favorite websites
- **History:** Shows previously visited websites
- **Settings:** Used to control browser options

Unit 5: Search Engine

What is a Search Engine

A search engine is a tool used to find information on the Internet.

Popular Search Engines

- Google
- Bing

- Yahoo

Search Techniques

- Keyword Search
- Image Search
- Video Search

Advanced Search

Searching using exact words, date, or file type.

Unit 6: E-Mail

What is E-Mail

Electronic Mail is a method of sending and receiving messages through the Internet.

Creating an E-Mail ID

An email account can be created using services like Gmail or Yahoo Mail.

Parts of an E-Mail

- **To:** Main recipient
- **CC:** Carbon Copy
- **BCC:** Blind Carbon Copy
- **Subject:** Topic of the email
- **Attachment:** Files sent with the email

Mail Folders

- **Inbox:** Received emails
- **Outbox:** Sent emails
- **Draft:** Incomplete emails
- **Spam:** Unwanted emails

E-Mail Etiquette

Using polite language, proper subject line, and avoiding unnecessary emails.

Unit 7: Cloud Services

Cloud Computing

Storing and accessing data over the Internet instead of local storage.

Cloud Storage Services

- Google Drive
- OneDrive
- Dropbox

File Upload and Download

Uploading files to the cloud and downloading them when needed.

File Sharing

Sharing files and folders with others online.

Unit 8: Social Networking

Social Media

Online platforms that allow users to connect and interact with others.

Popular Social Networking Sites

Facebook, Instagram, Twitter (X), LinkedIn

Basic Features

Creating an account, posting content, liking, sharing, and commenting.

Advantages

- Communication
- Marketing and promotion
- Information sharing

Disadvantages

- Time wastage
- Privacy issues
- Fake news

Unit 9: Online Services

Online Banking

Performing banking activities using the Internet.

Online Shopping

Purchasing products from websites like Amazon and Flipkart.

Online Ticket Booking

Booking train, bus, and flight tickets online.

Online Bill Payment

Paying electricity, mobile, and other bills online.

E-Learning

Learning through online platforms.

Online Forms

Filling application forms online.

Unit 10: Internet Security

Internet Security

Protecting data and systems from online threats.

Virus, Worm, Trojan

Malicious programs that can harm computers.

Antivirus Software

Protects the system from viruses.

Firewall

Prevents unauthorized access to the network.

Strong Password

A password using letters, numbers, and symbols.

Phishing

Fraud attempts through fake websites or emails.

Cyber Crime

Criminal activities carried out using the Internet.

Unit 11: Digital Payment System

Digital Payment

Making payments without using cash.

UPI

Instant money transfer using mobile phones.

Net Banking

Online banking services.

Debit and Credit Cards

ATM and card-based payments.

Mobile Wallets

Paytm, Phone Pe, Google Pay

Payment Safety

Do not share OTP, use secure websites.

Unit 12: Government Internet Services

Digital India

A government initiative to provide digital services.

UIDAI

Services related to Aadhaar.

PAN Card Online

Applying and updating PAN cards online.

Passport Services

Online passport application services.

E-Governance

Delivery of government services through the Internet.

Unit 13: Practical Work

- Creating an Email ID
- Searching information on the Internet
- Downloading and uploading files
- Filling online forms
- Saving files in cloud storage

CONTACT & REGISTRATION

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