Subject: Information and Communication Technology

Lecture – 07

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Outlines

- Multimedia

- Computer Virus

Multimedia

Multimedia is the media that uses the multiple forms of content and information processing (e. g. text, audio, graphic, animation, video, interactivity) to inform or entertain the user/audience.

Multimedia

- **Some hardware requirement:** Monitor, keyboard, mouse, sound card, memory, processor, graphics display card.

- **Some software requirement:** Windows XP/Vista/7/8/8.1/10, Photoshop Pro , Microsoft PowerPoint, Adobe Flash Player, Adobe Shockwave etc.

Media types/Names

The commonly used media for the purpose of storage, access and transmission of information are:

- Text (alphanumeric characters)
- Graphic (line drawings an images)
- Audio (Sound)
- Video (Video graphed real-life events)
- Animation

Media types/Names

Text: Alphanumeric characters are used to present information in text from Computers are widely used text processing.

Graphics: A graphic is an images or visual representation of an object. Therefore, computer graphic are simply images displayed on a computer screen.

Media types/Names

Audio: It deals with synthesizing, recoding, and playback of audio or sound, because in many cases sound can substantially reinforce our understanding of information presented in others ways, and in some cases sound is the only way to provide the desired information.

Media types/Names

Video: One on the most space consuming multimedia data type is digitalized video. The digitalized videos are stored as sequence of frames. Depending upon its resolution and size a single frame can consume upto1 MB. Also to have realistic video playback, the transmission, compression, and decompression of digitalized require continuous transfer rate.

Media types/Names

Animation: A simulation of movement created by displaying a series of pictures, or frames. Cartoons on television are one example of animation.

Download: Downloading is the transmission of a file from one Computer system to another, usually smaller system. From the internet user's point of views, to download a files is to request it from another Computer and to receive it.

Media types/Names

Upload: Uploading is the transmission of a file from one Computer system to another, usually larger Computer system. From the internet user's point of views, to upload a files is to send it to another Computer that is set up to receive it.

Media types/Names

WWW: World Wide Web, which is also known as a Web, is a collection of websites or web pages stored in web servers and connected to local computers through the internet. These websites contain text pages, digital images, audios, videos, etc. Users can access the content of these sites from any part of the world over the internet using their devices such as computers, laptops, cell phones, etc.

Multimedia components

- The multimedia computer generally contains the following components.
- Computer
- Multimedia Software
- Sound card
- CD-Drive

Multimedia components

- Micro-Phone
- CD-ROM Disk
- Multimedia speakers/Head-Phones
- Digital Camera and many other components

Video conferencing

Video conferencing is a live video-based meeting between two or more people in different locations using video-enabled devices. Video conferencing allows multiple people to meet and collaborate face to face long distance by transmitting audio, video, text and presentations in real time through the internet.

Uses for video conferencing include holding routine meetings, negotiating business deals, and interviewing job candidates.

Components of video conferencing systems

The components of a video conferencing system include the following:

- ✓ Video input : Video camera/web camera
- ✓ Video output :Monitor/T.V./Projector/printer
- ✓ Audio input : Microphones
- ✓ Audio output :Loud speakers
- ✓ Data transfer :Local Area Network(LAN) or the internet

Uses for Video Conferencing Technology

- Team Meetings
- Webinars
- Product Demos
- One-on-One Training and Support
- Job Interviews

Freelancing

Freelancing is a contract-based profession where instead of being recruited in an organisation, the person uses his skills and experience to provide services to a number of clients.

Hacker

Today, the term "hacker" is more frequently used to describe someone who discovers and exploits a computer system weakness or vulnerability. Hackers use vulnerabilities to block system access, gather information, or gain access to more computers in a network.

Hacking

Hacking is the illegal or legal practice of accessing data stored in any system by experts and hacking professionals. These experts are termed as Hackers. Hackers have all the knowledge related to programming and its concepts. The mistakes that are done by programmers while developing or working on software are picked up by hackers to encroach the security framework of the software

Computer Virus

A **computer virus** is a malware that when executed, it replicates itself or clones itself or infecting other programs by modifying them.

Name of some computer viruses:

- The Morris Worm
- The Melissa virus

Computer Virus

- The Concept virus

- The Blaster Worm

- CIH

- The Anna Kournikova Worm

Computer Virus

- OSX/RS Plug Trojan

- I LOVE YOU

- Net sky and Sasser

- Storm Worm.

Anti Virus

Anti-Virus software are developed by security companies to detect and delete computer viruses.

Some name of Anti-Virus:

- Avast
- AVG
- Avira, 4) Panda, 5) Kaspersky 6) ESET

Anti Virus

- Panda

- Kaspersky

- ESET

How to prevent viruses

1. Install Anti-Virus/Malware Software.
2. Keep your Anti-Virus up to date.
3. Run regularly Scheduled Scans with your Anti-Virus Software.
4. Keep your operating system current.
5. Secure your Network.
6. Think before You Click.

How to prevent viruses

7. Keep your personal information safe.
8. Don't use open Wi-fi.
9. Back up your Files.
10. Use Multiple Strong Passwords.

Any Questions ???