

Overview

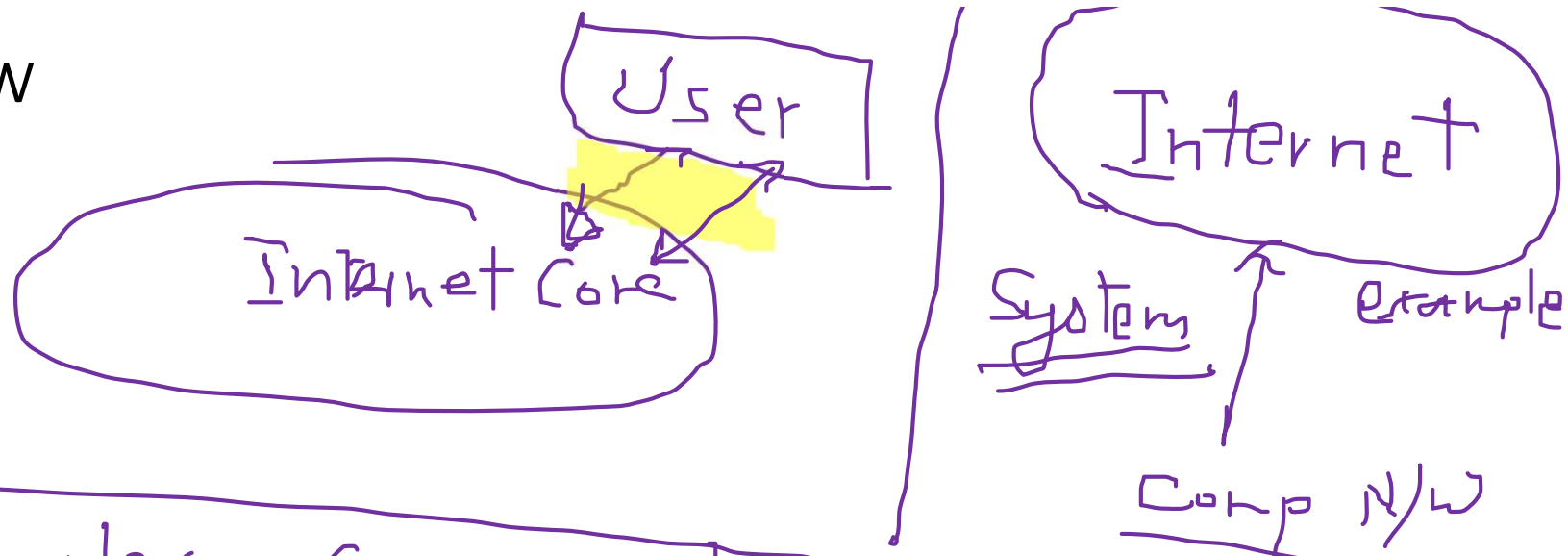
- no attendance marks / expected that all will attend & focus
- Interactiveness → Once every 2 weeks, we will have tutorial / discussion session
 - + hands on, problem solving
 - + prepare you for tests
- ⊕ Leave material as self study
- Interrupt & ask Q right away / raise hand chat

Overview

Labs:

1. Computer Simulation based.
2. Network application development^{*}
- 3^{*} (on campus) - Hardware based N/w Config.

Overview



System: Complex, Components interaction

- Apps: Meet, Youtube, Whatsapp, ..., FTP, Mail,
- Internet Configuration: Router/ISP, IP address.
10.100.2.5, www.dailyct.ac.in | Mask ✓
Gateway ✓

Overview

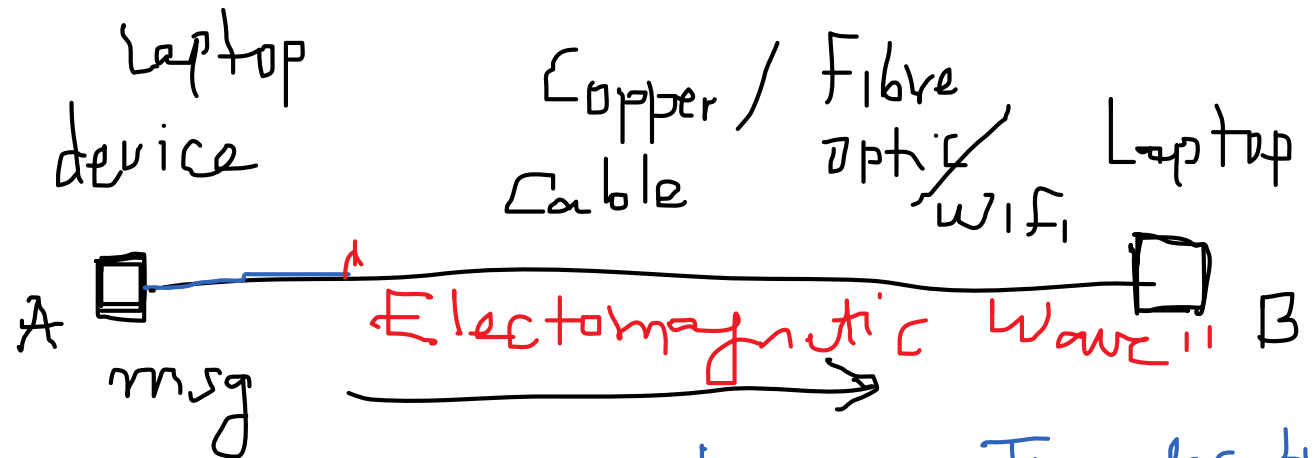
Micro-view

how?

- Communication

- msg.

- Mechanisms / Physics



• Karan - Transfer bytes

01010...

• Darshan - Signal

Overview

Two persons talking

Mouth

Ear



Air



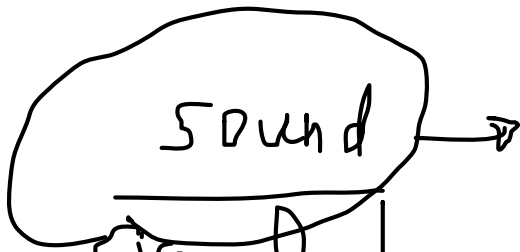
Change in Pressure

wave

Khushi

Medial

- Air
- Copper cable
- Fibre optic



Sound



Signal

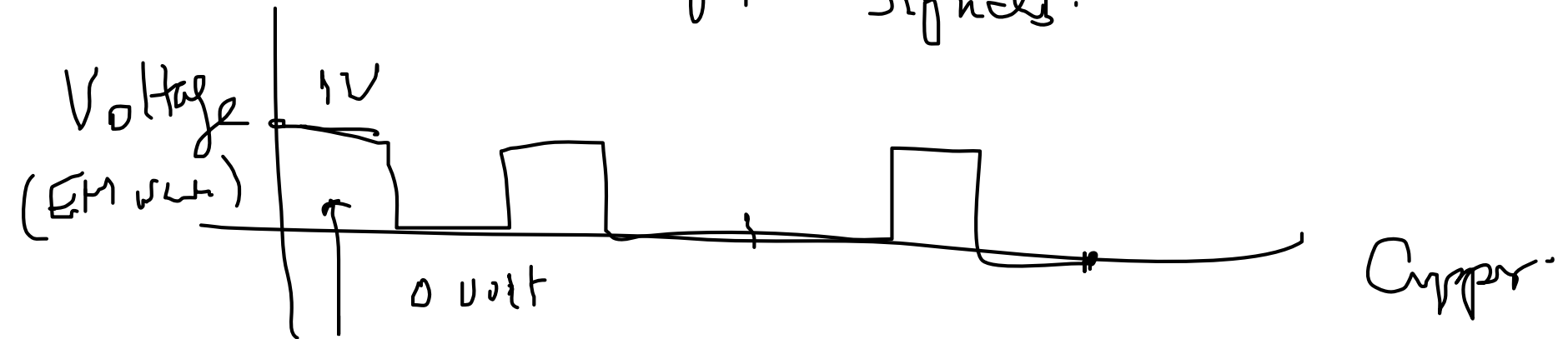


Sound / Word / Msg



Overview

digital signals.



Code (meaning)

1V → 1

0V → 0

→ Modulation

1 0 1 0 0 1 0

← Encoding



words

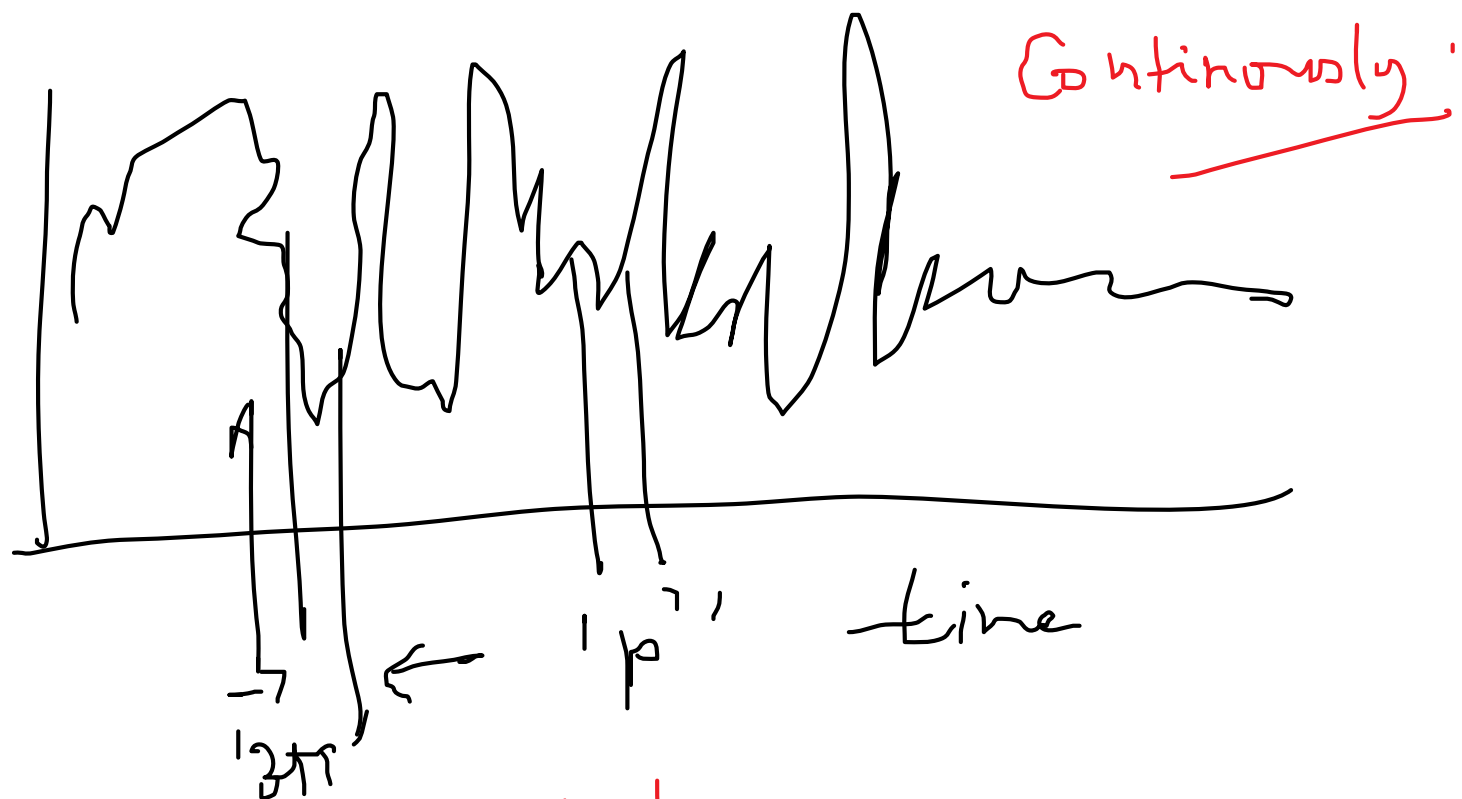


language

Overview

Analog.

Air Pressure



Speech to Text app \rightarrow not exact
Computers

Overview

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