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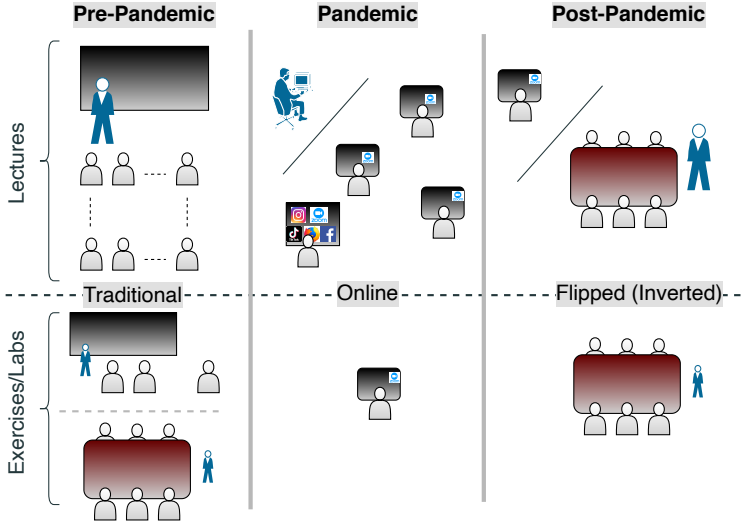
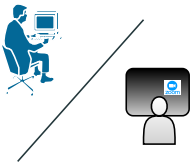
- Computer Networks, Bachelor course (150 to 200 students), *classical teaching with exercises*
- Communication Networks, Master course (20 to 50 students), *Problem based Learning*
- Simulation of Communication Networks, Master course (20 to 50 students), *Project based Learning*

Teaching Methods



Lessons Learned during the Pandemic - pre-recorded materials



Pros

- asynchronous working from students
- students have their own phase to prepare
- ideal for ”work study life balance”, ”child care”, ...

Cons

- students require social interaction, get to know each other (especially for the international students)
- team work, especially for the courses based on Problem Based Learning (PBL)

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Step 1

device = Gerät

reliability

What does reliability mean exactly?

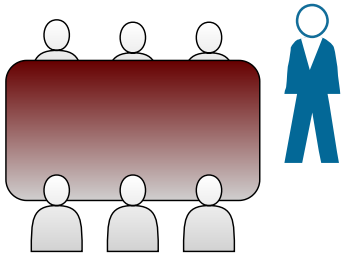
It does not break?

Step 2

It is not that simple! There should be a clear scientific defintiion!

. . . . . .

Step 7

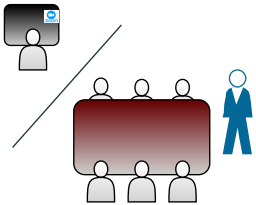


PBL
- students-centered
- learning occurs in smaller groups
- teacher is a facilitator (to help students organise and stimulate learning)
- ....

Note: Problem-based learning vs Project-based learning

Teachers

- short videos, take care of audio quality
- guide the students to understand the contents with additional materials
- easy maintenance over the years
- encourage silent/not active students



Students

- Students are flexible to organize watching pre-recorded videos, **BUT** ...
- this does not mean that you can understand everything on your own

My Vision for the Future

- Team-based discussion oriented lecture halls
- Team-based grading & continuous assessment
- world-wide repository/channel for basic teaching materials (videos, online references, books, etc,..)

Picture is taken from NTNU - https://www.ntnu.no/laeringsarealer/r2