

# CENG4480

## lab3 : Active Filters

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# Outline

- 5 experiments
- Common mistakes
- Hint

# 5 experiments

- Low pass filter; Two-pole low pass filter; High pass filter; Band stop filter; Non-inverting Schmitt filter.
- Complicated circuits, complex procedures:
  - containing many components per experiment.
  - also need to measure  $V_{in}$  and  $V_{out}$  under many frequencies.
- We also got into trouble on pre-lab. Completing these 5 labs in 2 hours is like an impossible-mission.
- Take easy and do your best!

# Common mistakes

- Power supply.
- The settings of waveform generator.
  - e.g. Amplitude, Offset, Waveform type
- Wrong connectivity.

# Hint

- Cursors / Meas.

You will get familiar with these two tools in this lab. Remember to use them to measure voltage.

- Intersection

