

# **IEE1711 Applied signal processing**

## **Exercise 5**

Julia Berdnikova

julia.berdnikova [ät] ttu.ee

# Individual project topics

- Taltech satellite receiver implementation (group task)
- Application specific reception (LTE, GSM, *ADS-B* )
- RC controlled devices (toys, drones, cars, etc.)
- Matlab SDR receiver applications
- Transmitters and receivers (GNURadio)

# Equalization in Matlab

- Read the link

<https://www.mathworks.com/help/comm/ug/equalization.html>

- Run examples:

**1) Equalize BSPK Signal (draw plots on separate Figures)**

<https://www.mathworks.com/help/comm/ug/equalize-a-bspk-signal.html>

**2) Equalize linearly modulated signal using MLSE**

**Recover Message Containing Preamble**

[https://www.mathworks.com/help/comm/ref/mlseeq.html#a1056557292b1\\_ex2](https://www.mathworks.com/help/comm/ref/mlseeq.html#a1056557292b1_ex2)

**3) Read the matlab example BER Performance of Different Equalizers**

<https://se.mathworks.com/help/comm/examples/ber-performance-of-different-equalizers.html>