

Statistical Methods for Economists – Week 6

(Questions and Tasks)

The topic: *Time series analysis*

- 1) What is a time series?
- 2) What are the four main components of a time series?
- 3) Which components form a periodic component?
- 4) Write an additive model of a time series.
- 5) Write a multiplicative model of a time series.
- 6) Choose a real world time series (such as price of Apple or Tesla shares with at least 10 data points) and evaluate the trend of this time series using a linear function. Then, make a prediction about the shares (for 3-5 time points in the future).