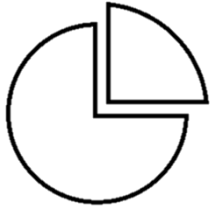


Grading (course has no credit)



Project 40%

HW 60%

Cover all topics

4 Practical HA

Schedule



6 Sections

**Additional sections,
if needed**



**HAs are done individually
However, the discussion (as
usually) is allowed. If you
have difficulties, don't
hesitate to write me your
questions**

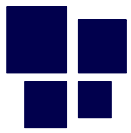
Recommendations

**Ask the questions, don't
hesitate**

**Read the documentation
and/or stack overflow**

Allocate the time wisely

**Make suggestions for the
course**



We will work with Jupyter Notebook, due to convenience in making illustrative R&D-like pieces of work



You can work either on your local PC or via cloud services

locally

on the cloud



[Download Anaconda here](#)



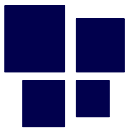
[Click here](#)



PyCharm

Not for our course, but usually the choice for developing the code; frequently used, convenient

There is also Jupyter Lab, which reminds R-studio and/or Matlab interface. Also not for our course, but can be an alternative in your working routine



Libraries (not limited to ones below)



Topics

Variable types & operations

Conditions, loops

Functions, error handling

Classes

Pandas

NumPy

Python Basics

Data Wrangling

Visualization

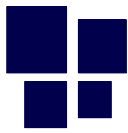
Applied Topics

General

Working tools

Plans

Why important?



Why?

Studies at NES

- **Econometrics-3:** Python HWs
- **Intro in Data Analysis in Marketing:** Python HWs + Project
- **Market Microstructure:** Python HWs/Projects
- **Machine Learning 1 & 2 :** Purely Python based
- **Computational Macroeconomics:** Very natural way to pick Python
- **Derivatives:** Small usage of Python
- **Financial Mathematics** (Python Project + HWs(?))

- **Different econometrics** (1/2/4/micro/macro)
- **Can be useful for our term papers and thesis**

Out of NES

- **Industry** (different analytics – banks, quants, risks, retail, manufacturing, consulting, etc.)
- **Research During PhD**
 - **Your research**
 - **Working as an RA (research assistant)**

Advanced Analytics

- **Really cool salaries** (junior positions from 100-150K RUB) and extremely versatile instrument base if go to DS/ML positions
- **Can choose the domain you like** with decent degree of freedom
- **Quickly developing and growing**, but still not overheated
- **Can make a considerable contribution** in some domains with rather simple methods

Thank you for your attention!!!

