# Agreements (consent) about breaks:

On Tuesday, 9-50 - 10-35; 5' break 10-40 - 11-25;

### Class 1: 8/09/25 Moodle content and files sent by mail

**I.** File !ReadmeGroup2025 \*.pdf contains information about methodical material, tasks, literature (sent by mail before).

## !ReadmeGroup2025.pdf - it is the starting point for each class!

II. Instructions: MatLab Update and Yandex-teleconference

III. Lecture. Review (presentation)

#### Class 2-3: 15-23/09/25:

**I.** File !ReadmeGroup2025 \*.pdf contains information about methodoligical material, tasks, literature (sent by mail before).

II. Moodle: Preliminary Data Analysis.

Presentation. Preliminary Data Analysis and MatLab

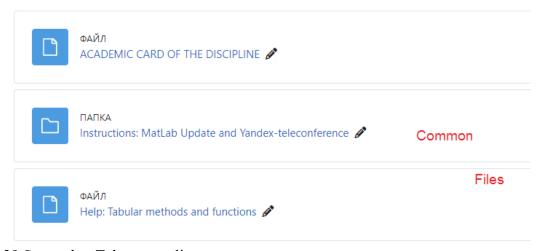
## III.Folder Methodological materials contains

- 1) input Data *crabs.xlsx* Excel data 7 properties description of 173 crabs (dichotomic, nominal, quantitative data)
- 2) DataForAnalysis.mat binary MatLab file containing quantitative crabs characteristics in form of double array MatrixCrabs (173×5) and names of correspondent data in the form of cell array NamesProperties (1×5)
- 3) Examples:
  - a) InputOutput.m script file explaining the input, output of MatLab data for various types and their storage (step-by-step explanation and getting DataForAnalysis.mat)
  - b) preprocessing Page 9.m the simplest data preprocessing

# IV. Tabular methods and functions.pdf - this file help to deal with tabular data

# Instructions and help are at the beginning of the course in Moodle!!!

Stochastic Modeling and Statistical Data Processing



### Class 4: 30/09/25:

- **I.** File !ReadmeGroup2025 \*.pdf contains information about methodological material, tasks, literature (sent by mail before).
  - 1) PresentationPage11.pdf (Explanation for Characteristics of Central Tendency in form of using blackboard)
  - 2) Theoretical manual: pp.13-21 (without *Coding*)

# Repeat

- 3) Example: *InputOutput.m* script file explaining the input, output of MatLab data for various types input data (matrix, table, excel table, binary files) and their storage (step-by-step explanation and getting DataForAnalysis.mat)
- 4) crabs.xlsx data for your next research

### Task!!!

**Based on** *InputOutput.m* save in binary file with name *CrabsPart* such variables: *NamesProperties* and corresponding data in the table which represented as matrix with name *MatrixCrabs*. Create new your file, download your data, which was saved in *CrabsPart* and choose numeric column (any crabs characteristic) and determine all central tendency properties, also construct histogram with fitting theoretical density function. What MatLab function are you going to use?

### Class 5: 07/10/25:

#### **Practical session**

- 1. On Task1, Task2. How to prepare report.
- 2. Lecture 2,3 you can find in the Moodle, Section *Stochastic Modeling and Statistical Data Processing*, Folder *Lectures*
- 3. Perform *task3* yourself (Moodle)