

# Introductory Statistics

## 2024 Lectures Part 1 - Introduction

Institute of Economic Studies  
Faculty of Social Sciences  
Charles University in Prague



- (i) Syllabus
- (ii) Requirements



## Block 1

- W1** Lecture 1 (20.2.2024) Introduction  
Data and Statistics
- W2** Lecture 2 (27.2.2024) Descriptive Statistics (part 1)  
Pre-recorded Seminar 1 | Descriptive Statistics in Excel  
Pre-recorded Seminar 2 | Descriptive Statistics in R
- W3** Lecture 3 (5.3.2024) Descriptive Statistics (part 2)  
**HW1 assignment**  
In-class Seminar 2.5 (8.3.2024)
- W4** Control Session 1 (15.3.2024)



## Block 2

W3 Lecture 3 (5.3.2024) Sample Space (part 1)

W4 Lecture 4 (12.3.2024) Sample Space (part 2)

W5 Lecture 5 (19.3.2024) Probability  
Pre-recorded Seminar 3 | Sample Space

W6 Lecture 6 (26.3.2024) Counting  
Pre-recorded Seminar 4 | Probability and Counting

W7

W8

W9 Control Session 2 (19.4.2023)



## Block 3

**W10** Lecture 7 (23.4.2024) Conditional Probability (part 1)

**W11** Lecture 8 (30.4.2024) Conditional Probability (part 2)

Pre-recorded Seminar 5 | Conditional Probability

**HW2 assignment**

Control Session 3 (3.5.2024)

## Block 4

**W12** Lecture 9 (7.5.2024) Sampling Techniques

**W13**



# Grading Requirements

- Home assignment 1 (W3) – 15 percent of the grade
- Home assignment 2 (W10) – 10 percent of the grade
- Exam Part 1 - Written Test – 60 percent of the grade
- Exam Part 2 - Discussion and Oral Examination – 15 percent of the grade
- Book reading and Active work

Minimum requirement is 30.5 percent of the grade from the written test (strictly more than 50% of the component)

Minimum requirement is 8 percent of the grade from the oral examination (strictly more than 50% of the component)

- A 91% – 100%
- B 81% – 90%
- C 71% – 80%
- D 61% – 70%
- E 51% – 60%
- F 0% – 50%



# Time Requirements

- The credit load of **3 ECTS** corresponding to **90 hours** of students' work:
  - participation lecture time including online videos – **12+2 hours**
  - participation seminar time including online videos – **7 hours**
  - participation control sessions – **4 hours**
  - time anticipated for work on home assignment 1 – **18 hours**
  - time anticipated for work on home assignment 2 – **12 hours**
  - time anticipated for exam preparation – **20 hours**
  - exam – **2 hours**
  - time anticipated for additional home study and reading during the semester – **13 hours**



# Exam dates - TBA by the end of April

May Two examination dates

June At least two examination dates

September One examination date





- relevant for Blocks 1 and 4:
  - SWEENEY, D.J., WILLIAMS, T.A. and ANDERSON D.R. Fundamentals of Business Statistics. 6th edition, Cengage Learning, 2011 ISBN 978-1-111-22127-0 (chapters 1, 2, 3, 7)
- relevant for Blocks 2 and 3:
  - BARTOSZYNSKI, R. and NIEWIADOMSKA-BUGAJ, M. Probability and Statistical Inference. 2nd edition, Wiley, 2008, ISBN 978-0-471-69693-3 (chapters 1, 2, 3, 4)
  - MITTELHAMMER, R.C. Mathematical Statistics for Economics and Business. 2nd edition, Springer, New York, 2013, ISBN 978-1-4614-5021-4 (chapter 1)
- for detailed reading instruction and additional sources see the webpage of the course in SIS

