
National Research University Higher School of Economics
School of World Economy and International Affairs



Undergraduate Programme
in International Relations
(Parallel Degree from HSE and UoL)

Introduction to Data Analysis

Course Syllabus
(ex. Winter 2019)

Instructor(s):

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Department of International Relations

Introduction to Data analysis for International Relations

Course Syllabus

Course Description

Abstract:

Data Analysis is the core to understanding many social and political issue in the modern world. Even simple analysis can give a much broader view on the processes, their interactions and interdependence.

Pre-requisites:

Mathematics and Statistics for International Relations

Special Equipment:

It is strongly advised for students to bring simple calculators (not smartphones, tablets etc.) for tests during classes and exams.

Aims and Objectives:

To acquire the students' understanding of key methods and ways of analysing numerical data related real situations in the world affairs.

Learning Outcomes:

After successful completion of the course the students will be able to use basic tools of statistics and data analysis for addressing a large variety of tasks including modelling, optimization issues, data analysis and forecast assessment.

Methods of Instruction:

The course program consists of lectures, classes (labs) and regular self-study. The thinking over the theoretical material presented at lectures is very important as well as a self-study at home. Examples used throughout the course have both theoretical and practical importance and are often related to real-world issues.

Office hours:

Nadezhda Shilova: Wednesday, 4p.m.-6 p.m. Myasnitskaya, 13(4), room 401a. By prior arrangement.

Anton Bizyaev: Monday, 3p.m.-5p.m., Malaya Ordynka, teachers' room. By prior arrangement.

Grading System

The course grade will be determined from the following activities:

Fall grade:

- short review tests (30%);
- lab work quality (30%);
- fall semester midterm exam (40%);

Final grade for the course:

- fall grade (20%)
- short review tests (30%);
- lab work quality (20%);
- December exam (30%)

Examination Type

Control takes the following forms:

- short review tests (10-15 min) in the beginning of labs;
- midterm exam at the end of the first module (120 min.);
- written exam (120 min) at the end of the second module (December);

Main Readings

Required:

3. Newbold, P. Statistics for Business and Economics, 4th ed. University of Illinois, 1994, or
4. Newbold, P., Carlson, W., Thorne, B. Statistics for Business and Economics (Pearson Education, 2012).

Optional:

2. Lindley, D.V., Scott, W.F. New Cambridge Statistical Tables (Cambridge: Cambridge University Press, 1995)
3. Aczel, A.D. Complete Business Statistics. (London: McGraw-Hill Higher Education, 2009) seventh edition [ISBN 9780071287531].
4. Anderson, D.R., D.J. Sweeney, T.A. Williams, J. Freeman and E. Shoesmith Statistics for Business and Economics. (South-Western Cengage Learning, 2010) eleventh edition [ISBN 9780324783247].
5. Lind, D.A., W.G. Marchal and S.A. Wathen Statistical Techniques in Business and Economics. (Boston: McGraw-Hill Higher Education, 2009) fourteenth edition [ISBN 9780073401768].
6. Wonnacott, T.H. and R.J. Wonnacott Introductory Statistics for Business and Economics. (Chichester: John Wiley & Sons, 1990) fourth edition [ISBN 9780471615170]

Additional material:

University of London Exam papers and Examiners reports for the last three years

http://www.londonexternal.ac.uk/current_students/programme_resources/lse/index.shtml .

http://www.londoninternational.ac.uk/sites/default/files/programme_resources/lse/lse_pdf/exam_papers_15/st104a_za15.pdf

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