



HSE St. Petersburg
School of Social Sciences and Humanities

Course Title: Analysis of Sociological Data
Credit Value: 4 ECTS

Course Coordinator: Eduard Ponarin
Contact hours: 60

Runs in (2016/17): Semester 2, Quarter 3,4

Course Prerequisites: Basic Statistics, R programming

Open to exchange students: yes

Course Outline

The purpose of this course is to acquaint the student with basic regression methods, including linear regression, logistic regression, and Poisson regression. The course will also provide a basic introduction to log-linear analysis and multilevel modeling. The course assumes knowledge of basic statistics and some experience with the R programming language. The course alternates lectures and labs. Labs review examples of problems discussed in the lecture. Students taking the course for credit will have to write a final paper using a regression method and turn in regular home assignments. The final grade is made up of the grades for final paper (50%) and home assignments (50%).

Themes: Linear regression. Outliers, non-linearity, multicollinearity, heteroscedasticity. –Binary response variable. Logit models. –Ordered regression and multinomial regression. –Poisson regression. Poisson regression for analysis of complex contingency tables. –Multilevel regression.

Assessment Methods

Assessment: coursework (50%) and course paper (50%);

Coursework:

- Home assignment 100%