**Course Syllabus**

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| Title of the course | **Economic and Social Statistics (offered in English)** |
| Title of the Academic Programme  | BA “Sociology and Social Informatics” |
| Type of the course | core |
| Prerequisites | Economic Theory, Probability Theory and Mathematical Statistics, Data Analysis in Sociology, Sociological Theory, Social Structure and Social Stratification. |
| ECTS | 3 |
| Total indicative study hours | Directed Study | Self-directed study  | Total |
| 40 | 74 | 114 |
| Course Overview | The objectives of mastering the discipline "Economic and Social Statistics" is to prepare students for independent information-analytical, research, production, applied and project activities using the methodology, methods, sources and data of national and international government statistics. |
| Intended Learning Outcomes (ILO) | * Understand the terminological apparatus of the theory of statistics, methods of collecting and analyzing statistical information.
* Distinguish between statistical and sociological approaches to data collection and processing.
* Understand the specifics of the methodology of studying social phenomena by the methods of state statistics and organization of work of statistical bodies in the Russian Federation, CIS countries, the European Union, the USA and international organizations (UN, World Bank, OECD, etc.).
* Be able to draw up a plan for the use of statistical information in a sociological study and to process the primary and secondary data provided by statistical bodies.
* Interpret statistical data using the explanatory capabilities of sociological and economic theory, as well as taking into consideration socio-economic, historical and socio-cultural context.
* Obtain the skills of independent search and analysis of statistical information;
* Acquire experience in processing social, demographic, economic and other relevant empirical information involving a wide range of statistical sources based on the use of modern information technologies.
* Receive practical training of the skill of analyzing, designing and presenting the results of statistical and sociological research, using national and international statistics in practical tasks, writing analytical notes on a wide range of topics and substantiating research problems with the involvement of statistical information.
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| Teaching and Learning Methods | Teaching and learning methods include lectures, seminars, group work, practical home assignments.  |
| Content and Structure of the Course |
| **№** | **Topic / Course Chapter** | **Total** | **Directed Study** | **Self-directed Study** |
| **Lectures** | **Tutorials** |
| 1 | The research questions and methods of statistics. Organization of state statistics in Russia and abroad. Statistical databases. | 10 | 2 | 2 | 6 |
| 2 | Statistical observation. Census. | 10 | 2 | 2 | 6 |
| 3 | Statistical tables. Statistical groupings and classifications. | 6 | - | 2 | 4 |
| 4 | Statistical indicators. Average values and indicators of variation. | 6 | - | 2 | 4 |
| 5 | Population statistics. The structure of families and households. | 12 | 2 | 2 | 8 |
| 6 | Statistical methods for studying the standard of living of the population. Statistics of income, financial differentiation, and poverty. | 12 | 2 | 2 | 8 |
| 7 | Labor and employment statistics. Interregional and international labor migration. | 12 | 2 | 2 | 8 |
| 8 | Statistics of education, culture, governance, public and political spheres. | 12 | 2 | 2 | 8 |
| 9 | Time series and index analysis. International indices in the study of social, economic and political processes. Statistical indicators of economic security of the country and region. | 8 | - | 2 | 6 |
| 10 | National wealth and the system of national accounts. | 8 | 2 | 2 | 4 |
| 11 | Statistics of finance, taxes, and investment. | 8 |  | 2 | 6 |
| 12 | Statistics of prices and inflation. Consumption, economic sentiment, and consumer expectations. | 10 | 2 | 2 | 6 |
| **Total study hours** | 114 | 16 | 24 | 74 |
| Indicative Assessment Methods and Strategy  | * Home assignment 1 (10% of the cumulative grade)
* Home assignment 2 (20% of the cumulative grade)
* Home assignment 3 (20% of the cumulative grade)
* Seminar Participation (30% of the cumulative grade)
* Control test (20% of the cumulative grade)
* Final test (exam test) (40% of the final grade, 60% of the final grade is the cumulative grade).

A 500 words essay on the topic of the seminar compensates each of the missed seminars.Final grade equals to 60% cumulative grade added 40% of exam test gradeThe final grade is rounded according to algebra rules. |
| Indicative Self- Study Strategies | **Type** | **+/–** | **Hours** |
| Reading for seminars / tutorials (lecture materials, mandatory and optional resources) | + | 24 |
| Assignments for seminars / tutorials / labs | + | 10 |
| E-learning / distance learning (MOOC / LMS) | **–** |  |
| Fieldwork | **–** |  |
| Project work | **–** |  |
| Other (Home assignment) | **+** | 30 |
| Preparation for the exam | **+** | 10 |
| Readings / Indicative Learning Resources | Mandatory* Hamilton, Kirk, and Cameron Hepburn. 2017. *National Wealth: What is Missing, Why it Matters*. Oxford University Press. URL: <http://www.oxfordscholarship.com/view/10.1093/oso/9780198803720.001.0001/oso-9780198803720?rskey=8w4xUZ&result=6>
* Maggino, Filomena, ed. 2017. *Complexity in Society: From Indicators Construction to their Synthesis*. Springer International Publishing AG. URL: <https://link.springer.com/book/10.1007/978-3-319-60595-1>

Optional* Alho, Juha M, and Bruce D. Spencer. 2005. *Statistical Demography and Forecasting*. New York; Springer. URL: <https://link.springer.com/book/10.1007/0-387-28392-7>
* Dobrin, A. 2016. Cham; Springer. *Homicide Data Sources. An Interdisciplinary Overview for Researchers*. URL: <https://link.springer.com/book/10.1007/978-3-319-19881-1>
* *How`s Life? Measuring Well-being*. 2017. OECD. URL: <https://www.oecd-ilibrary.org/economics/how-s-life-2017_how_life-2017-en>
* Jefferson, Philip N. 2012. *The Oxford Handbook of the Economics of Poverty*. Oxford University Press. URL <http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780195393781.001.0001/oxfordhb-9780195393781>
* Nolan, Brian, Wiemer Salverda, and Timothy M. Smeeding. 2011. *The Oxford Handbook of Economic Inequality*. Oxford University Press. URL: <http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780199606061.001.0001/oxfordhb-9780199606061>
* Winkler, Othmar. 2009. *Interpreting Economic and Social Data. A Foundation of Descriptive Statistics*. Berlin; Heidelberg: Springer. URL: [https://link.springer.com/content/pdf/10.1007%2F978-3-540-68721-4.pdf](https://link.springer.com/content/pdf/10.1007/978-3-540-68721-4.pdf)
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| Academic Support for the Course | Academic support for the course is provided via e-mail, Dropbox and LMS |
| Facilities, Equipment, and Software | A computer class with Internet access |
| Course Instructor | Associate professor Anna Nemirovskaya |