

Course syllabus «Демография» («Demography»)

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Number of credits	5
Contact hours	60
Self-study hours	130
Course	1
Educational format	Without use of online course

1. Course Description

The discipline is an obligatory two modules course for first-year students of the Master Program with specialization at 'Population and Development' at the Faculty of Social Sciences.

The discipline is taught in English.

The prerequisites are the basics knowledge of mathematics, statistics, geography, economics and social sciences.

The present syllabus sets up minimal requirements and course objectives for students, defines the content of lectures and seminars and lays out students' evaluation criteria. The course is designed for professors teaching this course, their teaching assistants and MA students majoring in "Public Administration" (38.04.04).

2. Learning Objectives

The course is devoted to the role of demography in the system of social studies and the relations between demographic and social economic processes. The aim of the course is to give the student the main ideas of demographic processes, methods of data collection, and data analysis, current approaches and techniques in demographic analysis (f.e. standardization, basic models and life tables) and the interpretation of the demographic results as well as their intake in decision making process.

3. Learning Outcomes

- The students will understand the nature of demographic processes and their principles, as well as the reasons for the demographic structures and their consequences.
- The students will be able to interpret demographic factors and measures, estimate the demographic situation in the country and the region, explain the dynamics of population (quantity and structures).
- The students will get the skills of basic demographic analysis.

4. Course Plan

Section 1. Introduction to the course

Section 2. Demographic sources

- Section 3. Demographic structures and transition
- Section 4. Introduction into demographic analysis.
- Section 5. Fertility and natality
- Section 6. Mortality and Health issues, including reproductive health
- Section 7. Migration. Introduction
- Section 8. Demographic forecast and policy

5. Reading List

1. Carmichael, G. A. (2016). *Fundamentals of demographic analysis: Concepts, measures and methods*. Canberra: Springer.
<https://link.springer.com/book/10.1007/978-3-319-23255-3>
2. Haupt, A. and T. T. Kane. 2004. *The Population Reference Bureau's Population Handbook*, 5th edition. Washington, DC: Population Reference Bureau.
http://www.prb.org/pdf/pophandbook_eng.pdf
3. Schoen, R. (Ed.). (2016). *Dynamic Demographic Analysis (Vol. 39)*. Springer.
<https://link.springer.com/book/10.1007/978-3-319-26603-9>
4. Victor J. Schoenbach (1999, 2000) “Studying populations – basic demography” <http://www.epidemiolog.net/evolving/DemographyBasics.pdf>

Additional literature

1. Inaba, H. (2017). *Age-structured population dynamics in demography and epidemiology*. New York: Springer.
<https://link.springer.com/book/10.1007/978-981-10-0188-8>
2. Doblhammer, G., & Gumà, J. (Eds.). (2018). *A Demographic Perspective on Gender, Family and Health in Europe*. Springer International Publishing.
<https://link.springer.com/book/10.1007/978-3-319-72356-3>
3. Karabchuk, T., Kumo, K., & Selezneva, E. (2017). *Demography of Russia. UK: Palgrave Macmillan, 2017. 314 p.*
<https://link.springer.com/book/10.1057/978-1-137-51850-7>
4. Hoque, M. N., Pecotte, B., & McGehee, M. A. (Eds.). (2016). *Applied Demography and Public Health in the 21st Century (Vol. 8)*. Springer.
<https://link.springer.com/book/10.1007/978-3-319-43688-3>
5. Hoque, M. N., & Potter, L. B. (Eds.). (2014). *Emerging Techniques in Applied Demography (Vol. 4)*. Springer.
<https://link.springer.com/book/10.1007/978-94-017-8990-5>
6. Aybek, C. M., Huinink, J., & Muttarak, R. (Eds.). (2015). *Spatial mobility, migration, and living arrangements*. Springer International Publishing.
<https://link.springer.com/book/10.1007/978-3-319-10021-0>

6. Grading system

The grade is based on participation in the lectures and seminars (20%), homework – 3 after structures, fertility and mortality (24%), a test (21%), and a final exam (35%).

For those students that have Demography in their Bachelor programme there are opportunities for additional topics study.

All scores are rounded according to arithmetical laws.

Home task 1

Choose one country. Download population pyramid; and population by 1 or 5 years age groups for the year 2015 from any available source, e.g. www.census.gov.

1. Using available data, what can be said about population growth from 1990 up to 2016? Please explain any noteworthy fluctuations if you will find any.
2. Does the shape of the pyramid corresponds to any of the demographic waves? Explain your answer.
3. Download 2 population pyramids (at least 20 years away from each other) for the same country. Please analyze how and why does the population structure changed (if it has changed), is the population stable, declining or increasing in numbers?

Home task 2

Using the data UN data

source:<http://www.un.org/esa/population/publications/WFD2012/MainFrame.html> or any alternative resources (in this case, please quote them accurately) Please analyze the evolution of the country fertility profile.

- 1) Choose one particular country.
- 2) Analyze Age Specific distribution by age groups (Age specific Fertility Rates), Total Fertility Rate, and Mean Age at Birth.
- 3) Ascribe these indicators. What are the main tendencies/trends? Are there any reasons behind the changes?
- 4) Using the obtained data construct line charts in Excel for Total Fertility rate and Age-Specific Fertility Rates. Draw a graph for Mean Age at childbearing.

7. Examination Type

The written, open-book exam, based on the open questions
No block elements.

8. Methods of Instruction

Lectures and seminars (tasks, examples, case-studies and group discussion)

9. Special Equipment and Software Support (if required)

Software

№ п/п	Name	Access conditions
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1.	MicrosoftWindows 7 Professional RUS MicrosoftWindows 10 MicrosoftWindows 8.1 Professional RUS	<i>From the university's internal network (contract)</i>
2.	Microsoft Office Professional Plus 2010	<i>From the university's internal network (contract)</i>

Material and technical support

Classrooms for lectures on the discipline provide for the use and demonstration of thematic illustrations corresponding to the program of the discipline, consisting of:

- PC with Internet access (operating system, office software, antivirus software);
- multimedia projector with remote control.