Правительство Российской Федерации

Федеральное государственное автономное образовательное учреждение высшего профессионального образования
"Национальный исследовательский университет
"Высшая школа экономики"

Факультет социальных наук

Программа дисциплины «Демография» («Demography»)

для направления/ специальности 38.04.04 «Государственное и муниципальное управление»
подготовки магистра для магистерской программы «Население и развитие»

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Москва, 2017

Настоящая программа не может быть использована другими подразделениями университета и другими вузами без разрешения кафедры-разработчика программы.

1 Область применения и нормативные ссылки (Scope of Use)

The present syllabus is aimed at faculty teaching this course, their teaching assistants, and students of the field of study 38.04.04 “Public and Municipal Management”, Master’s program with specialization at ‘Population and Development’.

This syllabus meets the standards required by:

- National Research University - Higher School of Economics,
- field of study 38.04.04 “Public and Municipal Management”, Master’s program with specialization at ‘Population and Development’,
- Master program curriculum as of 2017.

2 Цели освоения дисциплины (Aims and 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 Компетенции обучающегося, формируемые в результате освоения дисциплины (Intended 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.

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4 Место дисциплины в структуре образовательной программы (Place of the discipline in the Master program structure and Prerequisites)

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

5 Тематический план учебной дисциплины (Course Outline)

№№	Topics	Course Hours	Academic/Contact Hours		Self-study Hours
			Lectures	Seminars	
1	Introduction to the course	8	4	0	4
2	Demographic sources	12	2	2	8

№№	Topics	Course Hours	Academic/Contact Hours		Self-study Hours
			Lectures	Seminars	
3	Demographic structures and transition	22	4	4	14
4	Intoduction into demographic analysis.	26	4	4	18
5	Fertility and nuptality	40	6	6	28
6	Mortality	40	6	6	28
7	Migration. Introduction	16	2	2	12
8	Demographic forecast and policy	26	4	4	18
	In sum:	190	32	28	130

6 Формы контроля знаний студентов (Assessments and Grading)

Type of control	Form of control	1nd year				Parameters
		1	2			
Current	Test		*			Current control in the form of solving small exercises
Final			*			Final control in the form of a final test
	Written examination		*			

The grade is based on participation in the lectures and seminars (10%), homeworks (30%), a test (20%), and a final exam (40%).

7 Содержание дисциплины (Course Description / Curriculum)

Topic 1: Introduction to the course

Content:

Basic definitions. Demography. History of demography. Events, processes, balances

Resources:

- International encyclopedia of the social & behavioral sciences (Amsterdam ; New York: Elsevier).
- Malnar, D., and Malnar, A. (2015). Demographic Security Trends in Southeastern Europe. Croatian International Relations Review 21, 57–87.
- Mazuy, M., Barbieri, M., Breton, D., and d'Albis, H. (2015). The Demographic Situation in France: Recent Developments and Trends over the Last 70 Years. Population 70, 393–460.

- Renuga Nagarajan, N.(1, 2), Teixeira, A. a. c. (1, 2), and Silva, S. t. (1) (2017). An Empirical Analysis of the Demographic Trends in Least Developed Countries. Ageing International 1–23.
- Serban, A.C., and Aceleanu, M.I. (2015). Current Demographic Trends--A New Challenge for the Labour Market. Theoretical and Applied Economics 22, 309–320.

Topic 2: Demographic sources

Content:

Administrative records (Civil registration, Population registers, Other administrative records). Population and housing censuses. Social and demographic surveys. Databases.

Resources:

- UN Demographic and social statistics https://unstats.un.org/unsd/demographic/sources/

Topic 3: Demographic structures and transition

Content:

The variety of structures in demography. Sex ratio: types and calculation. Dependency ratio. Population pyramids. Demographic dividend. Demographic transition.

Resources:

- Notestein F. (1945). Population – the long view // T.W. Schultz, ed. Food for the World. Chicago: Chicago University Press: 37-57.
- Caldwell, J. C. (1976). Toward a restatement of demographic transition theory. Population and development review, 321-366.
- Davis, K. (1945). The world demographic transition. The Annals of the American Academy of Political and Social Science, 237(1), 1-11.
- Vishnevsky, A. (2014). The demographic revolution is changing the reproductive strategy of Homo sapiens. Demographic Review. English selection, pp. 3–24.
- Lesthaeghe, R. (1995). The second demographic transition in Western countries: An interpretation. Gender and family change in industrialized countries, 17-62.
- Reher, D. S. (2011). Economic and social implications of the demographic transition. PoPulation and develoPment review, 37(s1), 11-33.
- Demeny, P. (2011), Population Policy and the Demographic Transition: Performance, Prospects, and Options. Population and Development Review, 37: 249–274.
- Coleman, D. and Rowthorn, R. (2011), Who's Afraid of Population Decline? A Critical Examination of Its Consequences. Population and Development Review, 37: 217–248.
- Feng, W., Cai, Y. and Gu, B. (2013), Population, Policy, and Politics: How Will History Judge China's One-Child Policy?. Population and Development Review, 38: 115–129
- Oeppen, J., & Vaupel, J. W. (2002). Broken limits to life expectancy. Science, 296(5570), 1029-1031.

Lutz, W., Sanderson, W., & Scherbov, S. (2001). The end of world population growth. Nature, 412(6846), 543-545.

Topic 4: Intoduction into demographic analysis.

Content:

Types of instruments in demography. Coefficients. Measures of time: Lexis grid and APC-analysis

Resources (no main resource):

- Inaba, H. (2017). Age-Structured Population Dynamics in Demography and Epidemiology (Singapore: Springer).

Topic 5: Fertility and nuptality.

Content:

Trends in matrimonial behaviour. Measures of matrimonial behaviour (current and in the historical prospective). Trends in reproductive behaviour. Measures of reproductive behaviour

Resources:

- (2001). International encyclopedia of the social & behavioral sciences (Amsterdam ; New York: Elsevier).
- (2009a). Encyclopedia of the Life Course and Human Development (Detroit: Macmillan Reference USA).
- (2009b). Encyclopedia of the Life Course and Human Development (Detroit: Macmillan Reference USA).
- (2009c). Encyclopedia of the Life Course and Human Development (Detroit: Macmillan Reference USA).
- (2013). The Demography of Europe. In The Demography of Europe, G. Neyer, G. Andersson, H. Kulu, L. Bernardi, and C. Bühler, eds. (Dordrecht: Springer)

Topic 6: Mortality.

Content:

Age-specific death rates and mortality age patterns. Age standartization. Period and cohort life expectancies. The life table. Age-specific decomposition of differences in life expectancy. Causes of death. Multiple descrement life tables. Cause-elimination in life tables

Resources:

- Chiang C. L. (1984). The Life Table and its Applications. Robert E Krieger Publ Co.: Malabar (FL)
- Caselli, G., Vallin, J., & Wunsch, G. (2005). Demography: Analysis and Synthesis, Four Volume Set: A Treatise in Population. Academic press.
- Gompertz, B. (1825). On the nature of the function expressive of the law of human mortality, and on a new mode of determining the value of life contingencies. Philosophical transactions of the Royal Society of London, 115, 513-583.

- Sullivan, D. F. (1971). A single index of mortality and morbidity. HSMHA health reports, 86(4), 347.
- Kitagawa, E. M. (1955). Components of a difference between two rates. Journal of the american statistical association, 50(272), 1168-1194.
- Evgeny Andreev, M., Vladimir Shkolnikov, M., & Begun, A. (2002). Algorithm for decomposition of differences between aggregate demographic measures and its application to life expectancies, healthy life expectancies, parity-progression ratios and total fertility rates. Demographic Research, 7, 499-522
- Caselli, G., Vallin, J., & Wunsch, G. (2005). Demography: Analysis and Synthesis, Four Volume Set: A Treatise in Population. Academic press.
- Vallin, J., & Meslé, F. (2004). Convergences and divergences in mortality: A new approach of health transition. Demographic research, 2, 11-44.
- Omran, A. R. (2005). The epidemiologic transition: a theory of the epidemiology of population change. The Milbank Quarterly, 83(4), 731-757.
- Shkolnikov, V. M., Jdanov, D. A., Andreev, E. M., & Vaupel, J. W. (2011). Steep Increase in Best Practice Cohort Life Expectancy. Population and Development Review, 37(3), 419-434.
- Lozano, R., Naghavi, M., Foreman, K., Lim, S., Shibuya, K., Aboyans, V., ... & AlMazroa, M. A. (2013). Global and regional mortality from 235 causes of death for 20 age groups in 1990 and 2010: a systematic analysis for the Global Burden of Disease Study 2010. The Lancet, 380(9859), 2095-2128.

Topic 7: Migration. Introduction.

Content: The role of migration in demographic development and demographic balance. Migration statistics

Resources (no main resource):

- Statistics on International Migration A Practical Guide for Countries of Eastern Europe and Central Asia - United Nations Population Fund (2011) https://www.unece.org/fileadmin/DAM/stats/publications/International_Migration_Practical_Guide_ENG.pdf

Topic 8: Demographic forecast and policy.

Content: Demographic forecasts. Cohort-component and probabilistic approaches. UN projections. Spectrum software

Resources:

Comparative Family policy database http://www.demogr.mpg.de/cgi-bin/databases/FamPolDB/index.plx

World Population projections https://esa.un.org/unpd/wpp/

Historical population data and projections OECD
https://stats.oecd.org/Index.aspx?DataSetCode=POP_PROJ

8 Образовательные технологии (Teaching Methods and Recommendations)

The course uses the following methods and forms of study: (a) seminars (in some cases exercises in the others discussions), (b) hometasks and exercises, and (c) self-study.

9 Оценочные средства для текущего контроля и аттестации студента (Grading Estimation)

Hometask 1

Choose one country. Download population pyramid; and population by 1 or 5 year age groups for the year 2015 from any available sourse, 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?

Hometask 2

Using the data UN data source:http://www.un.org/esa/population/publications/WFD2012/MainFrame.htmlor 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.

10 Учебно-методическое и информационное обеспечение дисциплины (Reading Materials for the whole course)

10.1 Базовый учебник

- S.H. Preston, P. Heuveline, M. Guillot Demography. Measuring and Modeling Population Process, Blackwell Publishing, 2009.

10.2 Основная литература (Essential Reading List)

- Victor J. Schoenbach (1999, 2000) “Studying populations – basic demography”http://www.epidemiolog.net/evolving/DemographyBasics.pdf
- Wunsch G., Termote M. Introduction to demographic analysis. – N.–Y.: Plenum Press, 1978.

10.3 Дистанционная поддержка дисциплины (Online Resources)

Internet Resources:

- United Nations, World Population Prospects: the 2017 Revision. http://esa.un.org/unpd/wpp/
- Eurostat (Population and Social conditions) http://ec.europa.eu/eurostat
- Human mortality database www.mortality.org
- Human fertility database www.humanfertility.org

11 Материально-техническое обеспечение дисциплины

Laptop and projector.
Computer class with preinstalled for the lab sessions.