Study programme: Geography

Level: Master

Course title: Demographic Models

Teacher: Daniela Arsenović

Status: elective

ECTS: 6

Requirements: No

Learning objectives

Introduce students to indirect techniques of demographic estimates and fertility, nuptiality and migration models, as well as model life tables.

Learning outcomes

Application of various fertility, mortality, nuptiality and migration models during the course work will increase students' understanding of the demographic models and enable them to write papers in the area of Demography.

Syllabus

Theoretical instruction

Exploring the concept of stationary and stable population, as well as different mortality model life tables: tables of the United Nations for developing countries, Coale-Demeny regional model life tables, Lidermans system of tables, Brass logit tables. Coale-Trussel and Brass models will follow, as well as nuptiality and migration models.

Practical instruction

Exercises. Writing a research paper about one demographic model using empirical data.

Literature:

Ciganda D., Todd N. (2022). Demographic models of the reproductive process: Pas, interlude, and future. Population studies, 76(3), 495-513. https://doi.org/10.1080/00324728.2021.1959943

Hinde A. (2014). Demographic methods. London. Routledge. eISBN 9780203784273

Stuben C., Milligan B. (2007). Estimating and analyzing Demographic Models usingpopbio package in R. Journal of Statistical software, 22(11), 1-23.

Ansley C., Trussell J., 1996. The Development and Use of Demographic Models. Population Studies 50 (3). 469-484.

Weekly teaching load 4 (60)				Other:
Lectures: 2	Exercises: 2	Other forms of teaching:	Student research:	

Methods of Teaching

Lectures

Illustration and Demonstration

Practical skills

Knowledge score (maximum 100 points)

Pre-examination assignements	points	**Final examination**	points
Activities during lectures	**0-5**	Written examination	
Practical skills	**0-5**	Oral examination	**30-45**
Colloquia	**20-40**	.....	
Seminar paper	**0-5**		