**КАЗАХСКИЙ НАЦИОНАЛЬНЫЙ УНИВЕРСИТЕТ ИМ.АЛЬ-ФАРАБИ**

**Факультет географии и природопользования**

**Кафедра географии, землеустройства и кадастра**

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|  | УТВЕРЖДЕНО на заседании Ученого совета факультета  Протокол №\_\_\_\_от « \_\_\_\_»\_\_\_\_\_\_\_\_ 2021 г.  Декан факультета  \_\_\_\_\_\_\_\_\_\_\_\_\_ В.Г.Сальников |

**СРМ по курсу**

**ГИС в демографии**

**7M05204 - «ГУОС-Геопространственное управление окружающей средой»**

1 курс, английское отделение, семестр весенний, 5 кредитов

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**Алматы 2021**

Виды и сроки сдачи СРСП и СРС

СРСП: Сдача задания 1

СРМ: Variety of demographic methods for modeling population processes.

СРСП: Сдача задания 2

СРМ 2: Analysis of variations in total fertility rate, gross reproduction rate and net reproduction ratio.

СРСП: Сдача задания 3

СРМ 3: Modeling processes as a method for performing a structural data model for demographic cartography.

СРСП: Сдача задания 4

СРМ 4: Phases of data modeling in population statistics.

СРСП: Сдача задания 5

СРМ 5: Demographic maps. Basic features and processes of integrating.

СРСП: Сдача задания 6

СРМ 6: Future concepts that GIS will base in angle of performing demographic processes.

Литература:

1.Glad, John. 2008. Future Human Evolution: Eugenics in the Twenty-First Century. Hermitage Publishers, ISBN 1-55779-154-6 [1]

2.Preston, Samuel, Patrick Heuveline, and Michel Guillot. 2000. Demography: Measuring and Modeling Population Processes. Blackwell Publishing.

3.Paul R. Ehrlich (1968), The Population Bomb Controversial Neo-Malthusianist pamphlet

4.Leonid A. Gavrilov & Natalia S. Gavrilova (1991), The Biology of Life Span: A Quantitative Approach. New York: Harwood Academic Publisher, ISBN 3-7186-4983-7

5.Phillip Longman (2004), The Empty Cradle: how falling birth rates threaten global prosperity and what to do about it

6.Joe McFalls (2007), Population: A Lively Introduction, Population Reference Bureau [2]

7.Ben J. Wattenberg (2004), How the New Demography of Depopulation Will Shape Our Future. Chicago: R. Dee, ISBN 1-56663-606-X

8.Andrey Korotayev, Artemy Malkov, & Daria Khaltourina (2006). Introduction to Social Macrodynamics: Compact Macromodels of the World System Growth. Moscow: URSS, ISBN 5-484-00414-4 [3]

9.Demographic Winter 52 minute documentary on demography and global underpopulation

10.Demographic Bomb Part II documentary (to Demographic Winter) on demography and the effects of population control