Study Program: GEOGRAPHY
Type and level of studies: Bachelor studies
Course name: MATEMATICAL GEOGRAPHY
Lecturer: Dragan Radovanović
Status: Compulsory subject
ECTS: 6
Attendance prerequisites:

Course aims

Acquiring knowledge about the Universe, the Solar system, celestial bodies, the Earth as a celestial body, the Moon, time zones.

Course outcome

Course content

Theoretical part

Celestial sphere: elements, constellations, coordinate systems, Earth as a celestial body: position of the Earth in space (stars - galaxies - cosmos), solar system (planets, satellites, asteroids, comets, meteoroids), Earth's shape and size, Orientation on the Earth's surface (geographic coordinate system), Earth's orbit, Celestial sphere, Earth's movements (evidence, geographical consequences), Light-heat belts, Moon-Earth relationship, Measurement of time intervals: gnomonics, Determination of geographical coordinates in school conditions, Solar geometry, Astronomy - astrology.

Practical part

Celestial sky and celestial coordinate system, Rotating map of the starry sky, Planet Earth, Geographic coordinate system, Determining the shortest orbit on the globe, Determining the simplest orbit on the globe, Evidence for Earth's rotation, Evidence for the Earth revolution, School sun measurement methods and geographical coordinates, Phases of the Moon, Sundial construction, Determining sunrises and sunsets and the length of day, Astronomy - astrology, Astronomical software.

Literature

Манојловић, П.(1995): *Математичка географија*, Географски факултет, Београд

Тадић, М. (2004): *Математичка географија,* Завод за уџбенике и наставна средства, Београд

Тадић, М. (2004): *Астрономија – поглед у звездано небо*, Завод за уџбенике и наставна средства, Београд

Тадић, М. (2005): *Птолемејевска географија – античка математичка географија*, Завод за уџбенике и наставна средства, Београд

Number of active classes	Theoretical classes: 3	Practical classes: 2

Teaching methods Lectures, exercises, consultations, term test(s), term paper(s)

Assessment (maximum 100 points)			
Course assignments	**points**	Final exam	**Points**
activity during lectures	**10**	written exam	
practical classes	**10**	oral exam	**50**
term test(s)	**20**	....	
term paper(s)	**10**		

Knowledge assessment: written and oral exam, presenting projects, term papers, workbooks, fieldwork, etc.