

Level: bachelor				
Course title: Mathematical Geography with basics of Astronomy				
Status: compulsory				
ECTS: 6				
Requirements: None				
Learning objectives: Introduction to basic astronomic processes, as well as analysis of planetary movements and interplanetary gravitation influences.				
Learning outcoms: Expanding knowledge about the basic characteristics of the Universe, Solar system, interplanetary processes and movement of the Earth.				
Syllabus Mathematical Geography: definition, subject, aim and tasks: basic planetary characteristics of the Earth and astronomical surroundings; Kepler's laws and laws of gravitation; Stars: evolution, physical and chemical characteristics; Galaxies, radio galaxies and quasars; Solar system: the Sun (physical, chemical characteristics, composition), planets: Earth type planets, and Jupiter type planets, satellites, Moon (dimensions, relief, movement and consequences – librations, Sun and Moon eclipse), comets and asteroids; Shape, dimensions and movement of the Earth; Geographical coordinate system elements, calculation of time, calendar making; Cosmic influence on the processes on the Earth. <i>Practical work:</i> Visit to the Petrovaradinska Fortress, where the orientation is explained. Visit to the provincial Planetarium. Students are introduced to segments of the star planetarium in Belgrade.				
Weekly teaching load 5 (75)				Other: 0
Lectures: 3	Exercises: 2	Other forms of teaching: 0	Student research: 0	