

Study programmes: Bachelor studies – Astronomy				
Course name: Planetary astronomy				
Lecturers: Dr Bojan Novaković				
Status: Optional				
ECTS: 5				
Attendance prerequisites: None				
Course aims: Acquiring advanced knowledge about planetary astronomy.				
Course outcome: At the end of the course, student is familiar with basic processes which determine the evolution of planets, as well as all other objects in one planetary system. First of all, he acquires knowledge about Solar system. He meets the objects in our planetary system, acquires knowledge about their physical characteristics, the way of creation, and processes that lead to evolution as individual objects and the system as a whole.				
Course content: 1. The origin of Solar system: theories about creation, migration of planets, late heavy bombardment, the origin of water on Earth, the origin of the Moon. 2. Objects inside Solar system: planets, satellites, rings, asteroids, comets, meteors, debris... 3. Impact craters: types, forming mechanisms, distribution of ejected material, sizes, craters on the objects inside Solar systems. 4. Vulcanicity: elements, volcanic activity classification, products, post-volcanic events, volcanoes on Earth and other Solar system objects – examples. 5. Extra-solar and Planetary systems: detection methods, number, basic characteristics, habitability				
Literature: 1. Bojan Novakovic: Planetarna astronomija, skripta, Beograd, 2014 2. H.Jay Melosh: Planetary Surface Processes, Cambridge University Press, 2011 3. Imke de Pater, Jack J. Lissauer: Planetary Sciences, Cambridge University Press, 2001 4. George H. A. Cole, Michael M. Woolfson: 2013, Planetary Science: The Science of Planets around Stars, Second Edition, CRC Press				
Number of hours: 5	Lectures: 3	Tutorials: 2	Laboratory: -	Research: -
Teaching and learning methods: Frontal / Group / Practical				
Assessment (maximal 100 points)				
Course assignments	points	Final exam	points	
Lectures	-	Written exam	20	
Exercises / Tutorials	20	Oral exam	40	
Colloquia	20	Written-oral exam	-	
Essay / Project	-			