

Study Programme: PhD in Geosciences (Geography)			
Level: PhD			
Course title: Natural disasters and geography			
Lecturer(s): dr Milivoj Gavrilov, dr Dragoslav Pavić			
Status: elective			
ECTS: 11			
Requirements: None			
Learning objectives			
To acquire basic knowledge of the concept of natural catastrophes, causes, widespread, damages/benefits, recovery, protection and predictability of the natural disasters.			
Learning outcomes			
Adopted knowledge will provide an objective analysis of different aspects of the disaster, raising awareness among people to reduce the negative impact of disasters and help communities to fight and/or mitigate, and/or prevent catastrophes.			
Syllabus			
<i>Theoretical part</i>			
Historical background. Definitions, classification and distribution of the disaster. Insight and learning about the main groups of disasters according to modern definitions, such as: geophysical, hydrological, meteorological, climatological, biological, astronomical and anthropogenic disasters. Ranking, record, recovery, forecasting and prevention of the catastrophes.			
<i>Practical part</i>			
Completion of a seminar or scientific paper.			
Recommended literature			
<ol style="list-style-type: none"> 1. Abbott, P. (2012): Natural Disasters. (8th Edition), McGraw-Hill, New York: 1-469. 2. Alcántara-Ayala, I. 2002. Geomorphology, natural hazards, vulnerability and prevention of natural disasters in developing countries. Geomorphology 47. Amsterdam. 3. Challoner, J. (2000): Hurricane and Tornado. Dorling Kindersley. London: 1-61. 4. EM-DAT: The OFDA/CRED International Disaster Database. Internet: http://www.cred.be/emdat Université Catholique de Louvain. Brussels. 5. Lukić T., M. B., Gavrilov, S. B. Marković, M. Zorn, B. Komac, D. Mladjan, J. Djordjević, M. Milanović, Dj. A. Vasiljević, M. D. Vujičić, B. Kuzmanović and R. Prentović, Classification of the natural disasters between the legislation and application: experience of the Republic of Serbia, Acta geographica Slovenica, 53, (accepted), 2012. 6. Munich RE-NatCatSERVICE International Disaster Database. Internet: http://www.munichre.com/en/reinsurance/business/nonlife/georisks/natcatservice/default.aspx. Munich Reinsurance Company. Munich 7. Keller, E., and DeVecchio, D. (2012): Natural Hazards: Earth's Processes as Hazards, Disasters, and Catastrophes. (3rd Edition), Prentice Hall, New Jersey: 1-553. 8. Ochoa, G., Hoffman, J. and Tin, T. (2005): Climate: The Force That Shape Our World - and the Life on Earth. Rodale International Ltd., London: 1-288. 9. Ruddiman, W. (2005): Plows, Plagues and Petroleum – How Humans Took Control of Climate. Princeton University Press, New Jersey: 1-272. 10. Rothery, D. (2007): Teach Yourself Volcanoes, Earthquakes and Tsunamis. Teach Yourself Books, London: 1-304. 			
Weekly teaching load	Lectures: 4(60)	Student research:	
Teaching methodology			
Didactic method (monologue), dialogue, discussion, illustrative and demonstrative methods (multimedial presentations), field work			
Grading method (maximal number of points 100)			
Pre-exam obligations	points	Final exam	points
Seminar paper	50	Oral exam	50