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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Sciences and MathematicsDepartment of Biology and Ecology |
| **GENERAL INFORMATION** |
| Study program  | **Ecology and natural protection** |
| Study Module (if applicable) | / |
| Course title | **Global ecology** |
| Level of study | ☐Bachelor **☒** Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory **☒** Elective |
| Semester  |  **☒** Autumn ☐Spring |
| Year of study  | second |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | **Slaviša M. Stamenković** |
| Teaching mode |  **☒**Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work **☒** Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| - Acquiring knowledge and awareness of environmental systems and processes on a global scale, and in particular on the impact of anthropogenic factors on the Atmosphere, Hydrosphere, Pedosphere and Biosphere.- Highlighting the needs of recent works "permanently sustainable development".- Forming a view of the world as a global entity.- Understanding of the problems and challenges facing humanity in the 21st century.- The ability to direct and harmonize environmental protection and sustainable social development at the national and international level. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| The unbreakable connection between the living and inanimate nature. Natural systems and their hierarchy. Planet Earth as an ecological system. The emergence of the Earth and life on it. Structure and basic characteristics of the Earth. Ecosphere. Ekosfera and a man. The impact of man on the ecosphere. Anthropogenic ecological factor and its development. Ecological preconditions of different civilizations and inequality of global development. The impact of humans on the atmosphere and global climate. The impact of man on the hydrosphere and cryosphere. The exploitation and pollution of sea and freshwater. Inventories and consumption of water. The impact of humans on Pedosphere and lithosphere. The impact of man on the biosphere. Changes in biodiversity of the world as an indicator of human impact on the biosphere. Ecosystem services. Permanently sustainable development. The main causes of global changes. The growth of the world population. Urbanisation. The consumption of energy and raw materials. Food supply and permanently sustainable development. Necessary measures for permanent sustainable development. International agreements and organizations dealing with planetary environmental problems. Application of the models with a focus on sustainable use of resources, the effect antropogenní impact on the structure and function of ecosystems, the interaction of the biosphere, hydrosphere and atmosphere. Debate. |
| **LANGUAGE OF INSTRUCTION** |
| **☒**Serbian (complete course) ☐ English (complete course) ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)☐Serbian with English mentoring ☐Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **14** | **Written examination** | **12** |
| **Seminar** | **30** | **Oral examination** | **44** |
| **Teaching colloquia** | **/** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |