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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of sciences and mathematics, University of Nis  |
| **GENERAL INFORMATION** |
| Study program  | Biology |
| Study Module (if applicable) |  |
| Course title | **BIOLOGICAL SYMBIOSIS (BIODI13)** |
| Level of study | ☐Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☐ Elective |
| Semester  |  ☐ Autumn ☐Spring |
| Year of study  | 1 |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Theory lessons: 1. Symbiosis and Its Significance in Modern Biology, 2. Classification of Symbioses, 3. Viral Symbiotic Associations, 4. Bacterial Associations of Bacteria, Protozoa, and Animals, 5. Bacterial Pathogenesis: Molecular Mechanisms, 6. Bacterial Associations of Plants, 7. Symbiosis and the Origin of the Eukaryotic Cell, 8. Fungal Associations of Protozoa and Animals, 9. Fungal Associations of Fungi, Algae, and Plants, 10. Parasitic and Mutualistic Protozoans, 11. Photosynthetic Associations of Protozoans and Invertebrates, 12. Animal Parasitism: Flukes, Tapeworms, Nematodes, and Parasitoids, 13. Flowering Plant Symbioses, 14. Behavioral and Social Symbioses, 15. Symbiosis and Coevolution. Practical lessons: Examination of the various cases of interspecific associations and their role in the evolution of plants and animals. |
| Teaching mode |  ☐Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Introducing students to the symbiosis as a interspecific associations that have played a significant role in the evolution of plants and animals and in shaping the earth's physical features. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Upon completion of the course the student should be able to understud: symbiosis and its significance in modern biology, Classification of Symbioses, Viral, Bacterial and Fungal symbiotic associations with Protozoa, Plants and Animals, as well as Behavioral and social symbioses and Symbiosis and coevolution. |
| **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** | **5** | **Written examination** | **10** |
| **Practical teaching** | **5** | **Oral examination** | **50** |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |