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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Sciences and Mathematics |
| **GENERAL INFORMATION** |
| Study program  | **Biology and Ecology** |
| Study Module (if applicable) | Biology |
| Course title | Theory of Evolution |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | First |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Prof Dr Jelka Crnobrnja-Isailović |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [x] Laboratory work [ ]  Project work [x]  Seminar [x] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquiring knowledge in mechanisms of change in genetiс systems. Acquiring knowledge in structuring and importance of interaction between genetic system and its environment. Mastered basic principles of molecular evolution. Mastered importance of biotic interactions for biodiversity conservation. Understanding effects of biological and cultural evolution on the future of the human kind. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Evolution of DNA sequences, genes and proteins. Evolution of genetic systems. Phenotypic plasticity. Evolution of behavior and evolutionary stable strategies. Evolution of form and function. Evolution of interactions among species. Evolution of life history traits. Evolutionary novelties. Evolution of specific human traits. Sociobiology, evolutionary psychology and evolutionary ethics.  |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [x]  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** | **30** |
| **Teaching colloquia** | **50** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |