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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Sciences and Mathematics****Department of Biology and Ecology** |
| **GENERAL INFORMATION** |
| Study program  | **Biology** |
| Study Module (if applicable) | ­/ |
| Course title | **Genomics** (BDI203) |
| Level of study | ☐Bachelor ☐ Master’s ☒ Doctoral |
| Type of course | ☐ Obligatory ☒Elective |
| Semester  |  ☐ Autumn ☒Spring |
| Year of study  | First |
| Number of ECTS allocated | 7 |
| Name of lecturer/lecturers | Tatjana Mitrović |
| Teaching mode |  ☒Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☒ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Introduction to basic genomics as new insights into the origin of life and evolution of genomes, systematics of wildlife, disease diagnosis, personalization of medicine, patient response to pharmacotherapy and etc. Understanding of the organization and function of the genome, comparative genome analysis, genome evolution, the minimal genome, genomic medicine and pharmacogenetics.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Genome and genomics. The sequencing of the genome. Bioinformatics. The structure of the human genome. Comparative genomics. The minimal genom and the synthetic genom. Functional genomics. Reverse genomics. Genomic medicine and pharmacogenetics. Metagenomics.** |
| **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** | **/** |
| **Practical teaching** | **/** | **Oral examination** | **40** |
| **Teaching colloquia** | **55** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |