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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 | Quantitative Conservation Biology (BDI403) |
| Level of study | [ ] Bachelor [ ]  Master’s [x]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [x]  Autumn [ ] Spring |
| Year of study  | Second |
| Number of ECTS allocated | 12 |
| Name of lecturer/lecturers | Prof Dr Jelka Crnobrnja-Isailović |
| Teaching mode |  [x] Lectures [ ] Group tutorials [x]  Individual tutorials [ ] Laboratory work [ ]  Project work [x]  Seminar [x] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Learning about concepts and methods in modelling population dynamics. Implementation of modelling population dynamics in conservation of biodiversity components. Mastered modelling of population dynamics and its application in specific conservation projects.  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Modifications of Population Viability Analysis (PVA). Density independent PVA models. Density dependent PVA models. Accounting of observation error. Projection matrices in evaluation of population growth and viability. Demographic PVA models and sensitivity analysis. Multisite PVA. Methods of viability analysis in spatially structured populations.  |
| **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** | **20** | **Written examination** | **25** |
| **Practical teaching** | **25** | **Oral examination** | **30** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |