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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Sciences and MathematicsDepartment of Biology and Ecology |
| **GENERAL INFORMATION** |
| Study program  | Biology |
| Study Module (if applicable) | / |
| Course title | Endangered and endemic plants in culture *in vitro* |
| Level of study | ☐Bachelor ☐ Master’s ☒ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  |  ☒ Autumn ☐Spring |
| Year of study  | Second  |
| Number of ECTS allocated | 12 |
| Name of lecturer/lecturers | Dragana Stojičić |
| Teaching mode |  ☒Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| The aim of the course is to complete theoretical knowledge on methods of culture of plant cells, tissues and organs *in vitro*, applied to the endangered, endemic and relict species of plants of the Balkan Peninsula. The aim is to understand the mechanisms of propagation of cells in culture, cell lines growth, transformation of cells or genetic engineering. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Ability to research in the field of biotechnology plants, with special emphasis on the application of acquired knowledge in the direction of conservation of endangered and rare plant species. Active linking knowledge of various metabolic processes in plants during the clonal propagation, with an emphasis on methods that have practical application in the production and breeding plants. |
| **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** | **/** | **Written examination** | **20** |
| **Seminar** | **20** | **Oral examination** | **40** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |