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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) | PhD studies |
| Course title | Tissue Engineering (BDI301) |
| Level of study | ☐Bachelor ☐ Master’s ☒ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  |  ☒ Autumn ☐Spring |
| Year of study  | first |
| Number of ECTS allocated | 12 |
| Name of lecturer/lecturers | Stevo Najman, Perica Vasiljević, Ljubiša Đorđević |
| Teaching mode |  ☒Lectures ☐Group tutorials ☐ Individual tutorials ☐ Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| To train the students to follow the literature and critical interpretation of scientific results in the field of tissue engineering: to understand the fundamental and applied research in the field of tissue engineering; application of knowledge gained from the study of tissue engineering in other biomedical disciplines for doctoral studies; selection of adequate methods for tissue engineering in research and practical applications. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Tissue engineering and body regeneration. Tissue and cell culture application in tissue engineering. Tissue matrix. Application of biomaterials in tissue engineering. Cells, organism and biomaterial interactions**.** Cell sources in tissue engineering. Principles of certain organ engineering (bone, skin, etc.). |
| **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** | **15** | **Written examination** | **25** |
| **Seminar** | **20** | **Oral examination** | **40** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |