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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) | | | | 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** | | | | | | |