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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 | Stem Cell Biology (BDI302) |
| 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 | Perica Vasiljević |
| Teaching mode |  ☒Lectures ☐Group tutorials ☐ Individual tutorials ☐ Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| To educate students with latest developments in the field of stem cell biology. Expanding knowledge about stem cells differentiation. Stem cells application in medicine. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Stem cell properties. Embryonic and adult stem cells. Molecular basis of pluripotency. Stem cells Microenvironment. Growth factors and differentiation of the cells. The tissue specificity of the cell cycle. Clonal and asymmetric cell division. Tissue and organ development. Isolation and characterization of stem cells. The application of stem cells. Ethical issues in the stem cells use. |
| **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** |  |
| **Seminar** | **40** | **Oral examination** | **60** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |