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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) | / |
| Course title | **Molecular Biology of Cancer (**BDI303) |
| 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 | Tatjana Mitrović |
| Teaching mode |  ☒Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☒ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)**  |
| *Introduction to hereditary predisposition to cancer, multistage carcinogenesis and cancer cell characteristics. Understanding of basic technics for molecular diagnostics of cancers, prevention of cancer progression and cancer therapies.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Mutagens and carcinogens. Correlation between mutagenesis and carcinogenesis. Carcinogenesis. Oncogenes and tumor supressor genes. Epigenetics. Citological, biochemical and molecular characteristics of cancer cell. Angiogenesis, cancer progression and metastasis. Modern cancer diagnostics. Hereditary predisposition for cancer and cancer prevention. Standard cancer therapies (surgery, radiotherapy, chemotherapy) and novel cancer therapies (gene therapy, immunotherapy, combined therapies). Pharmacogenomics.** |
| **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** | **5** | **Written examination** | **/** |
| **Practical teaching** | **/** | **Oral examination** | **40** |
| **Teaching colloquia** | **55** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |