|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Technology | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | **Food Technology and Biotechnology** | | |
| Study Module (if applicable) | | | | Biotechnology, Pharmaceutical and Cosmetic Engineering module | | |
| Course title | | | | Pharmaceutical Biotechnology | | |
| Level of study | | | | Bachelor  Master’s  Doctoral | | |
| Type of course | | | | Obligatory  Elective | | |
| Semester | | | | Autumn Spring | | |
| Year of study | | | | 1st | | |
| Number of ECTS allocated | | | |  | | |
| Name of lecturer/lecturers | | | | Miodrag Lazić, Ivana Karabegović | | |
| 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 this course is to introduce students to the methodology of biotech processing carbon-hydrate raw material for pharmacologically active substances for making finished medicines.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| **Biotechnological production of pharmacologically active substances. Antibiotics (penicillin, tetracycline, streptomycin, etc.) Polysaccharides (dextran, xanthan, pullulan) Vitamins (vitamin B-12, vitamin B-2, β-carotene, etc.).**  **derivatives of naturally occurring steroid (cortisone, hydrocortisone and prednisolone). Enzymes (α-amylase, glucoamylase, pectinase, etc.). Organic acids (citric, gluconic, itaconic, etc.). Biomass with higher content of microelements.** | | | | | | |
| **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** | **10** | | **Written examination** | | |  |
| **Practical teaching** | **10** | | **Oral examination** | | | **50** |
| **Teaching colloquia** | **30** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |