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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Technology |
| **GENERAL INFORMATION** |
| Study program  | Technological Engineering |
| Study Module (if applicable) | / |
| Course title | Stability of pharmaceutical preparations |
| Level of study | ☐Bachelor ☐ Master’s ☒ Doctoral |
| Type of course | ☐ Obligatory☒ Elective |
| Semester  | ☒ Autumn ☒Spring |
| Year of study  | II year |
| Number of ECTS allocated | 8 |
| Name of lecturer/lecturers | Goran Nikolić |
| Teaching mode | ☒Lectures ☐Group tutorials ☒ Individual tutorials☐Laboratory work ☐ Project work ☒ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquiring knowledge in the field of stability of pharmaceuticals (drugs) and pharmaceutical-technological procedures for stability testing of active ingredients and pharmaceutical products. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| To enable students for developing and application of scientific and professional achievements, as well as independent work in control, research and development laboratories for testing the stability of drugs, through next main subjects:Physical and chemical stability of drugs. Functional changes in drugs during aging. Degradation products of the pharmaceutical active substances. Validated methods for identification of impurities. Formulating and preformulation stability studies. Factorial analysis. Stability indicating methods. Effect of the packaging on the drugs stability. The stability testing methodology by accelerated (artificial) aging. Methods of drugs stabilization.  |
| **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** | **20** | **Written examination** |  |
| **Practical teaching** | **30** | **Oral examination** | **50** |
| **Teaching colloquia** | **/** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |