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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Medicine |
| **GENERAL INFORMATION** |
| Study program  | **INTEGRATED ACADEMIC STUDIES OF PHARMACY** |
| Study Module (if applicable) | / |
| Course title | Industrial Pharmacy |
| Level of study | ☐Bachelor **☐ Master’s** ☐ Doctoral |
| Type of course | **☐ Obligatory** ☐ Elective |
| Semester  |  ☐ Autumn **☐Spring** |
| Year of study  | 5th (the fifth year of study) |
| Number of ECTS allocated | 5 ECTS |
| Name of lecturer/lecturers | Ivana Arsić, PhD - Associate professor Sonja Roganović - Teaching assistant |
| 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 the requirements of the quality assurance system in the production and distribution of medicines.
* Introduction to the methodology of formulation and development of medicinal preparations.
* Introduction to the pharmaceutical-technological operations : grinding, sifting, blending , heat transfer operations, drying, filtration, compression.
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| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Quality assurance in the production and distribution of medicines: basis concepts and definitions. Standardisation. International ISO standards and European standards important for the production and distribution of drugs. Good manufacturing practice in the production, storage and distribution of drugs. The formulation and development of conventional medicinal preparations and modern pharmaceutical forms. Incompatibilities in the formulation. Stabilisation of medicinal preparations. Transferring process of making medicinal preparations from the laboratory to the industrial level (scale-up). Pharmaceutical-technological operations in the pharmaceutical industry for the production of medicinal preparations. |
| **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** | **60** |
| **Practical teaching** | **20** | **Oral examination** | **exceptionally, in borderline cases;** |
| **Teaching colloquia** | **15** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |