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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | |  | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | INTEGRATED ACADEMIC STUDIES OF PHARMACY | | |
| Study Module (if applicable) | | | |  | | |
| Course title | | | | PHARMACOGNOSY 2 | | |
| Level of study | | | | Bachelor  Master’s  Doctoral | | |
| Type of course | | | | Obligatory  Elective | | |
| Semester | | | | Autumn Spring | | |
| Year of study | | | | third | | |
| Number of ECTS allocated | | | | 6 | | |
| Name of lecturer/lecturers | | | | Prof. Dr Dušanka Kitić, Ass. prof. Dr Dragana Pavlovic | | |
| Teaching mode | | | | Lectures Group tutorials  Individual tutorials  Laboratory work  Project work  Seminar  Distance learning  Blended learning  Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| During the course, students will learn about:   * Division, biosynthesis, diversity, localisation, physicochemical properties, role in a plant, and use in pharmacy of primary and secondary pharmacologically active compounds. * Sulphuric heterosides, cyanogenic heterosides, terpenes, monoterpenes and monoterpene heterosides, essential oils and alcaloids (definition, presence in nature, distribution, localization, biological function, physical-chemical properties, structure, determination, extraction, purification, qualitative and quantitative analysis pharmacological activity, application in and their use in modern medicine and pharmacy) and drugs that contain them. * Basic principles of microscopic and macroscopic analysis of herbal drugs. * Use and assessment of professional literature and specific methods of quality control in pharmacognosy, as described in the current pharmacopeias. | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| **Course content**  *Theory*  Secondary metabolites of plants relevant in pharmacy and medicine: compounds with sulphur and sulphuric heterosides, compounds with nitrogen and cyanogenic heterosides, terpenes, monoterpene heterozides and alkaloids. Definition, presence in nature, distribution, localisation, biological function, physical-chemical properties, structure, demonstration, extraction, purification, pharmacological activity, use in pharmacy, and drugs containing the above secondary metabolites, as well as essential oils.  *Practice*  Basic principles of work in the lab for microscopic and macroscopic analysis of herbal drugs and drugs with unorganized structure. Microscopic and macroscopic analysis of drugs with organized structure: rhizoma, radix, cortex, folium, herba, flos, fructus and semen. Introduction to most common drug fakes and replacements. Pharmacological and therapeutic significance of analyzed drugs. | | | | | | |
| **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** | **0-10** | | **Written examination** | | | **16-30** |
| **Practical teaching** | **12.5-30** | | **Oral examination** | | |  |
| **Teaching colloquia** | **16-30** | | **OVERALL SUM** | | | **51-100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |