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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 [x]  Master’s [ ]  Doctoral  |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [x]  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 |  [x] Lectures [x] Group tutorials [x]  Individual tutorials [x] 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.
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| **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** |
| [x] Serbian (complete course) [x]  English (complete course) [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)[x] 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** |