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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 1 |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral  |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | second |
| 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 [x]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| After completing the course of Pharmacognosy 1 student will be able to:* Know the division, path of biosynthesis, diffusion, localization, phycial-chemical characteristics, role in plants and application of primary and secondary pharmaceutically active natural molecules in pharmacy and medicine.
* Know the definition and properties of most important natural medicinal products of significance in medicine and pharmacy, as well as their possible use.
* Know the structure of plant phenols (simple, coumarins, lignans, flavonoids, tannins, chinons, phloroglucinol and orcinol derivates), saponosides and cardiotonic heterosides.
* Know the methods for identification and control of quality of herbal drugs, qualitative and quantitative analysis, extraction, isolation and identification of pharmaceutically active natural molecules.
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| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| TheoryHistory and definition of pharmacognosy, herbal substances and preparations; production, evaluation, herbal preparations and forms of therapy with herbal preparations. Control and registration of herbal preparations and relationship between the primary and secondary metabolism of plants, the significance of secondary herbal metabolites in pharmacy and medicine, Definition, natural distribution, localization, biologic function, physical-chemical properties, structure, demonstration, measurement, extraction, purification, pharmacological activity, use in the pharmacy of secondary metabolites and drugs containing the said metabolites.PracticeBasic principles of work in the lab for pharmacognostical study; qualitative and quantitative analysis of heterosides, saponins, tannins, essential oils and alkaloids and field work. |
| **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** | **10-20** |
| **Practical teaching** | **8-20** | **Oral examination** | **0-50** |
| **Teaching colloquia** | **-** | **OVERALL SUM** | **51-100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |