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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Medicine****University of Niš** |
| **GENERAL INFORMATION** |
| Study program  | **INTEGRATED ACADEMIC STUDIES OF PHARMACY** |
| Study Module (if applicable) |  |
| Course title | **CHEMISTRY OF HETEROCYCLIC COMPOUNDS**  |
| Level of study | ☐Bachelor Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory x Elective |
| Semester  |  x Autumn ☐Spring |
| Year of study  | **III** |
| Number of ECTS allocated | **2** |
| Name of lecturer/lecturers | **Associate Professor Mirjana Abramović****Asstant prof Jelena Lazarević** |
| Teaching mode |  xLectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquisition of additional knowledge in the field of chemistry of heterocyclic compounds necessary for better understanding of their application in medicine and pharmacy. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Pyrrole, indole, pynam, imidazole- structure, physical and spectroscopic features, reactions, synthesis. Pharmaceutically important derivatives. Pyridine, quinoline, pyrimidine: structure, physical and spectroscopic features, reactions, synthesis. Natural products, medicines, biologically active compounds. Seven-membered heterocycles (oxepins, azepines, tiepines, diazepins) and heterocycles with large rings (heteronines and tetrapyroles). Understanding of the structure-reactivity relationship of heterocyclic compounds important for medicine and pharmacy. |
| **LANGUAGE OF INSTRUCTION** |
| xSerbian (complete course) ☐xEnglish (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** |  | **Written examination** | **Up to 50** |
| **Practical teaching** |  | **Oral examination** |  |
| **Teaching colloquia** | **Up to 50** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |