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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Technology |
| **GENERAL INFORMATION** |
| Study program  | CHEMICAL TECHNOLOGIES |
| Study Module (if applicable) | ORGANIC CHEMICAL TECHNOLOGY AND POLYMER ENGINEERING,PHARMACEUTICAL AND COSMETIC ENGINEERING |
| Course title |

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| Medicinal plastic  |

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| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  | ☒ Autumn ☐Spring |
| Year of study  | IV  |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Jakov Stamenković |
| Teaching mode |  ☒ Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☒ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Introducing students with the application of polymers in medicine, pharmacy and dentistry.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Student should acquire basic knowledge in the medicinal plastic. Polymers and pharmacy (polymers as drugs, substituents, auxiliary remedies, depot preparations and matrix bands, mechanisms of degradation of polymers in the body, natural and synthetic polymers for use in the pharmacy). The application of polymers in medicine (implants in different areas of medicine, biodegradable polymers). Natural and synthetic polymers. Polymers in dentistry (properties of polymers for application in polymer dentistry, polymers to produce a variety of materials used for making dentures, teeth, crowns, etc.). Medical sutures. Hydrogels. Sterilisation. |
| **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** | **10** | **Written examination** | **/**  |
| **Practical teaching** | **/** | **Oral examination** | **70** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |