|  |
| --- |
|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Science and Mathematics |
| **GENERAL INFORMATION** |
| Study program  | Master studies |
| Study Module (if applicable) | Applied chemistry |
| Course title | Industrial processes |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | 2nd |
| Number of ECTS allocated | 8 (eight) |
| Name of lecturer/lecturers | Marjan Ranđelović |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [x] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *The course is designed so that it considers the most important modern and traditional processes in a variety of chemical and other industries, including building materials industry, metallurgy, electrical engineering, ceramics, composite materials, etc. The aim is to familiarize students with the production processes of some important technical products, as well as the processes and phenomena on porous surfaces, the principles of traditional and modern ceramics processing, electrochemical process engineering and other fields of applied chemistry.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| *After passing the subject the students are expected to: i) acquire the knowledge necessary for understanding, monitoring and management of industrial processes; ii) expand their knowledge acquired in the context of previous courses in industrial chemistry and to apply theory to solve practical problems in the industry as well as in research and development laboratories; iii) mastering the principles and processes that are represented in the technology of building materials, metallurgy, advanced ceramics processing, composite materials and electrochemical engineering.* |
| **LANGUAGE OF INSTRUCTION** |
| [x] 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** | **30** |
| **Practical teaching** | **10** | **Oral examination** | **30** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |