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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty of Technology** |  |
| **GENERAL INFORMATION** |
| Study program  | Undergraduate studies: Chemical Technologies |
| Study Module (if applicable) | Ecological Engineering |
| Course title | Mixing in processing industry |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  | [x]  Autumn [ ] Spring |
| Year of study  | Third |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Prof. Olivera Stamenković |
| Teaching mode |  [x] Lectures [ ] Group tutorials [x]  Individual tutorials [x] Laboratory work [x]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Students gain the necessary knowledge of the mixing of single phase and multiphase systems in devices for mixing. The aim of the course is to present to students the fundamental phenomena of the transfer of momentum, heat and mass transfer in devices with stirring, different types of devices for mixing and learn how to calculate them. Students are able to independently calculate filtration devices. Students acquire the knowledge which enables them to work in real conditions. By comprehensive understanding of the problems students are able to solve them. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Basis and principles of mixing. Devices for mixing. Fluids Mixing. Emulsion mixing. Suspension mixing. Gas-liquid dispersion mixing. Solid mixing. Heat transfer and mixing. Mixing and chemical reaction. |
| **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** | **5** | **Written examination** |  |
| **Practical teaching** | **5** | **Oral examination** | **60** |
| Project work | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |