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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 | | | | Distillation and absorption operations | | |
| Level of study | | | | Bachelor  Master’s  Doctoral | | |
| Type of course | | | | Obligatory  Elective | | |
| Semester | | | | Autumn Spring | | |
| Year of study | | | | Third | | |
| Number of ECTS allocated | | | | 6 | | |
| Name of lecturer/lecturers | | | | Prof. Olivera Stamenković | | |
| Teaching mode | | | | Lectures Group tutorials  Individual tutorials  Laboratory work  Project work  Seminar  Distance learning  Blended learning  Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| Students gain the necessary knowledge of the distillation and absorption operations. The aim of the course is to present to students the basic phenomena of heat and mass transfer in distillation and absorption devices, different types of devices for distillation and absorption and learn how to calculate them. 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 distillation operations. Distillation. Rectification - batch and continuous. . McCabe and Lewis analysis of binary mixtures distillation. Distillation of multicomponent mixtures. Basis and principles of absorption operations. Column packing. Absorption and striping. Analysis of mass transfer in distillation and absorption devices. Distillation and absorption devices. | | | | | | |
| **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** | **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** | | | | | | |