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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program | **Energy and Process Engineering** |
| Study Module (if applicable) | - |
| Course Title | Hydraulic and pneumatic transport |
| Level of Study | ☐Bachelor | ☒ Master’s | ☐ Doctoral |
| Type of Course | ☐ Obligatory | ☒ Elective |
| Semester | ☒ Autumn | ☐ Spring |
| Year of Study | I |
| Number of ECTS Allocated | 6 |
| Name of Lecturer/Lecturers | dr Saša Milanović, dr Jasmina B. Bogdanović-Jovanović |
| Teaching Mode | ☒ Lectures | ☐ Group tutorials | ☐ Individual tutorials |
| ☐ Laboratory work | ☒ Project work | ☒ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *The aim of the course is introducing students to hydraulic and pneumatic transport. Student gain knowledge about hydraulic and pneumatic transport systems, their operation characteristics and maintenance.*  |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1) Types of materials that can be transported by hydraulic or pneumatic transport systems. 2) Characteristic examples hydraulics and pneumatics transport. 3) The basic parameters of transport in the fluid flow, 4) The forces acting on the material particles which are transported in the fluid flow. 5) Conveying systems. 6) Transport of fluidized material. 7) Hydraulic transport of material. 8) Calculation of hydraulic and pneumatic transport systems. |
| **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** | **Max 40, depending on Teaching Colloquia**  |
| **Practical Teaching** | **5** | **Oral Examination** | **50** |
| **Teaching Colloquia** | **40** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |