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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 | district heating |
| 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 | Velimir P. Stefanović |
| 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 to district heating systems and studying the basic principles of design elements and installation of these complex systems. After passing the exam, the student will be able to independently change the methodology of the budget usually installation of applied remote heating elements and installation engineering practice. |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1) Introduction. The classification of district heating and power applications, 2) Heat consumption, 3) Sources of heat in a district heating system, 4) Hydraulic calculation of heat and heat the district heating networks, 5) Hydraulic thermal regime of district heating networks, 6) Design and constructive solutions to heat the district heating network, 7) Equipment of heat district heating network, 8) Heat transfer station, 9) Accessories of heat transfer stations, 10) Energy efficiency of district heating 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** | **65** |
| **Practical Teaching** | **0** | **Oral Examination** | **Max. 30 (depending on Teaching Colloquia)** |
| **Teaching Colloquia** | **0** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |