



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 | <input type="checkbox"/> Bachelor | <input checked="" type="checkbox"/> Master's | <input type="checkbox"/> Doctoral |
| Type of Course | <input type="checkbox"/> Obligatory | <input checked="" type="checkbox"/> Elective | |
| Semester | <input checked="" type="checkbox"/> Autumn | <input type="checkbox"/> Spring | |
| Year of Study | I | | |
| Number of ECTS Allocated | 6 | | |
| Name of Lecturer/Lecturers | Velimir P. Stefanović | | |
| Teaching Mode | <input checked="" type="checkbox"/> Lectures | <input type="checkbox"/> Group tutorials | <input type="checkbox"/> Individual tutorials |
| | <input checked="" type="checkbox"/> Laboratory work | <input checked="" type="checkbox"/> Project work | <input checked="" type="checkbox"/> Seminar |
| | <input type="checkbox"/> Distance learning | <input type="checkbox"/> Blended learning | <input type="checkbox"/> 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 |

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|---------------------------|----------|-------------------------|--|
| 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**