Course Unit Descriptor

Study Programme: Energy And Process Engineering
Course Unit Title: Construction of process and heating equipment
Course Unit Code: M3517
Name of Lecturer(s): Đaković Damir, Stepanov Borivoj
Type and Level of Studies: Master Academic Degree
Course Status (compulsory/elective): compulsory
Semester (winter/ summer): winter
Language of instruction: english
Mode of course unit delivery (face-to-face/distance learning): face-to-face
Number of ECTS Allocated: 6
Prerequisites: none
Course Aims:. Basic terms and methods of construction in energy and process science will be learned.
Learning Outcomes: Graduating students are prepared to work in a design office, on installations on energy and process equipment and in production of energy and process equipment.
Syllabus. Students are familiarized with the elements of construction and design. Stages of facilities development. Basic laws, regulative and standards in design and construction in energy and process science. Types of projects and the scope individual projects. Tender documentation and the basic contract elements corresponding to development of technical documentation. Specific project elements: project problem, technical description, general and technical conditions, specific elements of construction calculations, graphical representation, study of safety at work. Specific elements of construction calculations: Class of container and apparatus selection, material selection, construction revaluation coefficients, mechanical sizing, sizing the strengthening, sizing the safety equipment, sizing the welding and construction inspection. Montage of energy and process equipment.
Required Reading: Relevant literature in English, tbd

Weekly Contact Hours: 2	**Lectures: 3**	**Practical work: 2**

Teaching Methods: Verbal method – visual method – practical method.
Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Attendance			
Computer exercises			
Tests (4x)			