

Study Programme: Energy And Process Engineering			
Course Unit Title: Diffusion equipment			
Course Unit Code: M35I13			
Name of Lecturer(s): Đaković Damir			
Type and Level of Studies: Master Academic Degree			
Course Status (compulsory/elective): elective			
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: Students will get acquainted with diffusion processes in process industry as well as with its use in the engineering praxis. Basic types of diffusion apparatus will be covered. Calculation procedures for the most commonly used types of apparatus will be done.			
Learning Outcomes: Students will be prepared to continue their work in the design biro and process industry.			
Syllabus. -Definition and the use of diffusion operations -Transport phenomena -Classification and calculation methodology in diffusion apparatus -Isothermal diffusion operations (absorption, adsorption, extraction) -Non isothermal diffusion operations (distillation, rectification, steaming) -Development trends in diffusion apparatus			
Required Reading: Relevant literature in English, tbd			
Weekly Contact Hours: 2		Lectures: 3	
Practical work: 3			
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)			

