



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering		
Study Module (if applicable)	-		
Course Title	Selected chapters of the drying theory		
Level of Study	<input type="checkbox"/> Bachelor	<input type="checkbox"/> Master's	<input checked="" 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	II		
Number of ECTS Allocated	10		
Name of Lecturer/Lecturers	Mladen M. Stojiljković, Jelena N. Janevski		
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 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 the theory of heat and mass transfer in the drying process, drying technology, thermal estimation of dryers, some types of dryers, mathematical modeling as a basis for planning, calculation and construction of dryers

Syllabus (brief outline and summary of topics, max. 10 sentences)

1) Drying of the wet material, 2) Kinetics of thermal drying, 3) Heat and moisture transfer during the drying process 4) Thermodynamics of convective drying, 5) Drying with unsaturated moist air, 6) Thermal drying method of the wet material 7) Preparation for the thermal drying of wet materials, 8) Thermal drying and aggregate state of wet material, 9) The technological basis of convective dryers design,

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	50

Practical Teaching	10	Oral Examination	Max. 35 (depending on Teaching Colloquia)
Teaching Colloquia	35	Overall Sum	100

***Final examination mark is formed in accordance with the Institutional documents**