



# UNIVERSITY OF NIŠ

**Course Unit Descriptor**

**Faculty**

Faculty of Mechanical Engineering

## GENERAL INFORMATION

Study Program	<b>Mechanical Engineering</b>		
Study Module (if applicable)	-		
Course Title	Driers		
Level of Study	<input checked="" type="checkbox"/> Bachelor	<input type="checkbox"/> Master's	<input type="checkbox"/> Doctoral
Type of Course	<input type="checkbox"/> Obligatory	<input checked="" type="checkbox"/> Elective	
Semester	<input type="checkbox"/> Autumn	<input checked="" type="checkbox"/> Spring	
Year of Study	IV		
Number of ECTS Allocated	5		
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)

Introduce students to the basics of drying technology, conventional and non-conventional drying processes, selection of the appropriate type of dryer and process parameters concerning on different types of drying materials. The course is targeting both the theoretical and practical aspects of the drying technology.

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

1) General introduction to moist air, 2) Basic theory of the drying process. The moist material, 3) Mechanical properties of wet materials., 4) Static of drying process, 5) The kinetics of the drying process, 6) Heat and mass transfer in the drying process, 7) heat balance, 8) material balance, 9) Determination of the flow of the drying agent and fuel consumption, 10) Different types of dryers, 11) Auxiliary devices for drying installations. 12) Measuring instruments, control and automation of the dryers.

## 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

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

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