



# 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	Municipal hydraulic engineering and irrigation		
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	III		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Jasmina B. Bogdanović-Jovanović		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input 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)

The aim of the course is introducing students to different water supply systems, sewerage and drainage systems and irrigation systems. Students are going to learn how to design specific systems and make the proper pump(s) selection.

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

1) Water supply systems – Introduction; elements of internal and external water supply network; water consumption. 2) Hydraulic calculation of external water supply systems. Branched and ring type water supply systems. 3) Pump selection. 4) Sewerage systems. Introduction. Internal and external sewage systems. 5) Basic elements of the sewage internal and external systems; Design and calculation. 6) Faecal pumps and sewage pumps. 7) Irrigation systems - General on irrigation (task and type of irrigation systems). 8) Spray or micro-sprinkler irrigation systems. 9) Drip irrigation 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	Max 40, depending on Teaching Colloquia

<b>Practical Teaching</b>	<b>5</b>	<b>Oral Examination</b>	<b>50</b>
<b>Teaching Colloquia</b>	<b>40</b>	<b>Overall Sum</b>	<b>100</b>

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