



<b>Course ID:</b> HDTH31	<b>Course name: PRINCIPLES AND PROCESSES OF WATER TREATMENT</b>		
<b>Cycle:</b> THIRD	<b>Year:</b> FIRST	<b>Semester:</b> II	<b>ECTS credits:</b> 15
<b>Course status:</b> ELECTIVE		<b>Total course hours: 90</b> Lectures: 45 Laboratory: 45	
<b>Teaching participants:</b>	<b>Teachers and associates with expertise in the field to which the subject belongs.</b>		
<b>Prerequisite for enrollment:</b>	-		
<b>Course aims:</b>	To provide students with basic knowledge in the field of water preparation processes and to introduce them to modern industrial wastewater processing procedures.		
<b>Thematic course units:</b>	The theoretical basis and practical procedures of a variety of processes involved in the preparation of drinking water, wastewater and water for the needs of the industry will be considered. The course will cover preliminary water preparation as well as a final water treatment. During the course, students will create seminar papers based on the literature review from a certain area of water treatment.		
<b>Learning outcomes:</b>			
<b>Teaching methodology:</b>			
<b>Assessment methods and grading system:</b>	<b>Grading criteria</b>		
	Criteria	Maximal score	Required score
	1. Class attendance	5	3
	2. Class activities	15	8
	3. Midterms	40	22
	4. Final exam	40	22
	Total	100	55
	<b>Scores and grading</b>		
	Score	Grade (B&H)	Grade (ECTS)
	< 55	5	F, FX
	55-64	6	E
65-74	7	D	
75-84	8	C	

	85-94	9	B
	95-100	10	A
<b>Literature:</b>	<ol style="list-style-type: none"><li>1. N.P.Cheremisinoff, Handbook of Water and Wastwaters Treatment Technologies; N&amp;P Ltd Butterworth and Heinemann, Boston,USA 2002.</li><li>2. A.E. Kerschbaumer, Pflanzen-klaranlagenselbstgebaut, Leopold Stocke Verlag,2006</li><li>3. S. Judd and B. Jeffersoon; Membranes for Industrial Wastewaters Recovery and Reuse;Elsevier 2003</li><li>4. W. Roecke: Trinkwasserdesinfektion, Oldenbourg Industrieverlag,2007</li></ol>		