

Title of the course: Water utility and urban drainage	NEPTUN-code: RKWVH1EBNE	Teaching hours: 2+2+0 Semester: 6	Credit: 5 Exam type: exam
Course leader: Rita Kendrovics Boda PhD	Position: associate professor	Required preliminary knowledge: -	
Curriculum:			
The tasks of the drainages and its orders are also conventional and improved systems. Municipal and regional drainage. The EU directives connected to sewerage, the Water Framework Directive and the Settlement Wastewater Directive, wastewater agglomerations. The drainage systems in settlements and industrial plants and their effects on the wastewater treatment. The connection of the drainage and the wastewater treatments. The effects of climate change on the sewerage systems. The design and the parts of drainage systems. Typical operating conditions. The scaling of the drainage systems, the integrated drainage and drainage management. The operational questions of drinking water supply.			
Professional competencies:			
Knowledge of the important characteristic of the piped public utilities, their connections taxonomy and design basic knowledge in the water supply sector. Knowledge of the design and operation aspects of the settlement public utilities. Knowledge of the domestic and international directives related to sewerage. The students will have the basic knowledge needed for carry out integrated water management.			
Bibliography:			
Subhash Verma, Varinder Kanwer, Siby John (2015): Water supply Engineering, VIKAS Publishing Hous Rangwala: Water Supply and Sanitary Engineering, e-book, free download Mihret Dananto Ulsido (2013): Water Supply and Urban Drainage Engineering, LAMBERT Academic Publishing Ernest W.Steel, Terence J.McGhee: Water supply and sewerage, book free download by EasyEngineering.net			
Comment:			