

**POLITEHNICA University of Timișoara**  
**Faculty of Civil Engineering**

**Field of study: CIVIL ENGINEERING**

**MSc degree: HYDRAULIC ARRANGEMENTS OPTIMIZATION – OSH (teaching in Romanian language)**

The main goal of OSH Master Program is to prepare specifically trained professionals in the infrastructure represented by hydraulic structures and developments as part of the broad field of civil engineering. The scientific research backed up by theoretical and especially applied training activities, developed along appointed conferences and practical or laboratory works, aim to provide the outgoing specialists in the matter of development, operation, rehabilitation and refurbishment of hydraulic arrangements with high efficiency.

Covering the hydraulic aspects of the complex phenomenon, studies involving special hydraulics, hydro-technics mathematical modeling, flow analysis in receiving basins and river courses are developed, mainly by designated software. As about the structural approach of the involved constructions, issues regarding the theory of elasticity and plasticity and hydraulic structures computer analysis can be mentioned. In the same time, besides the up to date approach of hydraulic arrangements management, the program pay a close attention to specific issues like time behavior of hydraulic structures or small hydropower arrangements.

Following this framework, the OSH program provide the master students with wide professional perspectives regarding the water infrastructure, such as specialized appointments in the management of complex projects or as dedicated careers in scientific research and high education.