Subject name	**Sediment Transport in Streams - introduction**	
Subject code	IS-STS-21	
Department	Department of Hydraulic Engineering and Geotechnics	
Faculty	Faculty of Environmental Engineering and Land Surveying	
Subject supervisor/Lecturer	Leszek Książek P.hD., Andrzej Strużyński P.hD., Agnieszka Woś P.hD.	
General information	Teaching period	winter / summer semester
	ECTS credit	6
	Lectures total	15
	Lab practical	30
Objective and general description	Provide students with knowledge in the field of river sediment transport as a process of deciding on the state of stream hydrodynamic balance and its channel morphology, stability and hydraulic structures, regulation both technical and close to nature.	
Lectures **7** x **2 +1 hours**	Sediment properties, the characteristics of sediment transport in mountain rivers, the beginning of the sediment motion, measurement of sediment transport, bedload transport equations, properties of stable riverbeds, the degradation of the river bed, jet pumps.	
Lab practicals **15 x 2 hours**	Students perform the calculation of the bedload transport intensity and the mass of transported bedload under steady-state motion	
References	1. Ratomski J., 2000, Podstawy projektowania zabudowy potoków górskich, 2. Dissertation and publication in Department of Hydraulic Engineering and Geotechnics	