

CODE: ECO 2.5	COURSE TITLE: APPLIED HYDROLOGY			ECTS: 3
COORDINATOR: Tomasz Dysarz		DEPARTMENT: Hydraulic and Sanitary Engineering		
COURSE CATEGORY				
Open				
VOLUME:30 H			PERSONAL WORK: 15H	
LECTURES: 15 H	PRACTICALS (CLASSES) (H)	PLACEMENT: (H)	PROJECT: 15 H	OTHER MODALITIES: (H)
EVALUATION:		OTHER MODALITIES:		LECTURER(S)
EVALUATION MODALITIES				Dr. Tomasz Dysarz
ORAL INDIVIDUAL REPORT				
WRITTEN INDIVIDUAL REPORT	X			
FINAL ORAL EXAM				
FINAL WRITTEN EXAM				
COMMENTS OF EVALUATION:		TEACHING METHODS: Lectures, project		
SEMESTER: WINTER		LANGUAGE: ENGLISH		
PERIOD: 15 WEEKS		YEAR OF STUDY: OPEN		
OBJECTIVES				
Presentation of fundamental concepts in classical and modern hydrology; Presentation of selected methods for the hydrological assessment;				
CONTENTS				
Hydrologic cycle; Basic hydrological processes; Mechanisms of mass and energy transport; Water in atmosphere; Subsurface water and groundwater; Basin and surface runoff; Stream flow; Rating curve; Collection of hydrologic data; Concepts of hydrologic systems; Unit hydrograph; River flow regime; Extreme events and probability of exceedance; Flood wave propagation				
GROUP SIZE: 15		PRE-REQUIRES: Basics of mathematics and physics		