

CODE: ECO 1.2	COURSE TITLE: OPEN CHANNEL FLOW			ECTS: 3
COORDINATOR: Tomasz Dysarz		DEPARTMENT: Dpt. of Hydraulic and Sanitary Engineering		
COURSE CATEGORY				
Open				
VOLUME:30 H			PERSONAL WORK: 15 H	
LECTURES: 15 H	PRACTICALS (CLASSES) (H)	PLACEMENT: (H)	PROJECT: 15 H	OTHER MODALITIES: (H)
EVALUATION:		OTHER MODALITIES:		LECTURER(S)
EVALUATION MODALITIES				Tomasz Dysarz
ORAL INDIVIDUAL REPORT				
WRITTEN INDIVIDUAL REPORT	X			
FINAL ORAL EXAM				
FINAL WRITTEN EXAM				
COMMENTS OF EVALUATION:		TEACHING METHODS: Lectures, project		
SEMESTER: SUMMER/WINTER		LANGUAGE: ENGLISH		
PERIOD: 15 WEEKS		YEAR OF STUDY: OPEN		
OBJECTIVES				
Presentation of fundamental principles governing open channel flow process; Explanation of main concepts applied in modeling of open channel flow				
CONTENTS				
Mass and momentum balance in open channels; Gradually varying flow; Steady gradually varying flow; Water surface profiles; Uniform flow; Velocity profiles; Rapidly varying flow; Spillways, stilling basins, hydraulic jump; Unsteady flow and St. Venant equations; Solution of open channel flow equations;				
GROUP SIZE: 15		PRE-REQUIRES: Basics of mathematics and physics		