Agenda – Summer school at BOKU

Project title: Strengthening of master curricula in water resources management for the Western Balkans HEIs and stakeholders

Acronym: SWARM

Project number:

597888-EPP-1-2018-1-RS-EPPKA2-CBHE-JP

Work package	Title
6	Dissemination and exploitation
Activity	Title
6.5	Winter/summer schools

Dates	15th to 26tht November 2021
City	Vienna
Meeting venue	University of Natural Resources and Life Sciences, Vienna (online via Zoom)
Address	Muthgasse 107, 1190, Vienna

University of Nis

Strengthening of master curricula in water resources management for the Western Balkans HEIs and stakeholders

Project number: 597888-EPP-1-2018-1-RS-EPPKA2-CBHE-JP   www.swarm.ni.ac.rs

Monday, 15th November 2021		
University of Natural resources and Life Sciences, Vienna (online)		
Welcome Session		
10:00-11:00	Welcome speech, presentation of University, Department and Institute	Michael Tritthart
11:00-12:00	Presentation of the program of the Summer School	Daniel Wildt
Introduction to unsteady problems in hydrodynamics		
13:00-14:45	Balancing of water levels in two tanks connected through a pipe	Daniel Wildt
15:15-17:00	Heat and mass transport in free-surface water bodies	Daniel Wildt

Tuesday, 16th November 2021		
University of Natural resources and Life Sciences, Vienna (online)		
Ordinary differential equations		
09:00-10:45	Water surface estimation in non-uniform flow	Daniel Wildt
11:15-13:00	Retention	Daniel Wildt
Afternoon – Self organized learning		

Wednesday, 17th November 2021		
Computer based river modelling		
09:30-12:00	Theory on computer based river modelling	Michael Tritthart
Afternoon – Self organized learning		

Wednesday, 17th November 2021		
University of Natural resources and Life Sciences, Vienna (online)		
Computer based river modelling		
09:30-12:00	Theory on computer based river modelling	Michael Tritthart
Partial differential equations		
15:00-16:15	Numerical solution of PDEs	Daniel Wildt
16:45-18:00	Development of a flood wave	Daniel Wildt

Thursday, 18th November 2021		
University of Natural resources and Life Sciences, Vienna (online)		
1D numerical models, error estimation		
09:00-10:15	Set-up of a 1D model of a channel system using the Excel worksheets "UNDA"	Daniel Wildt
10:45-12:00	Error estimation in physical lab	Daniel Wildt

	experiments	
Hydraulic labs at BOKU		
13:00-14:00	Presentation of the hydraulic laboratories at BOKU	Daniel Wildt
Afternoon – Self organized learning		

Friday, 19th November 2021		
University of Natural resources and Life Sciences, Vienna (online)		
1D numerical models, error estimation		
09:00-12:00	Unsteady pipe flow (hydraulic surge)	Daniel Wildt
Afternoon – Self organized learning		

Monday, 22nd November 2021		
University of Natural resources and Life Sciences, Vienna (online)		
Unix		
09:30-12:00	Introduction to Linux operating systems and the Unix command line	Michael Tritthart
Afternoon – Self organized learning		

Tuesday, 23rd November 2021		
University of Natural resources and Life Sciences, Vienna (online)		
Introduction to OpenFOAM		
09:00-13:00	Introduction to OpenFOAM	Daniel Wildt
Afternoon – Self organized learning		

Wednesday, 24th November 2021		
University of Natural resources and Life Sciences, Vienna (online)		
An Introduction to OpenFOAM: A User View by Prof. Hrojve Jasak		
09:00-13:00	*"An Introduction to OpenFOAM: A User View"* presentation by Prof. Hrojve Jasak at the University of Ghent (May 2016) Part I	Daniel Wildt
Afternoon – Self organized learning		

Thursday, 25th November 2021		
University of Natural resources and Life Sciences, Vienna (online)		
An Introduction to OpenFOAM: A User View by Prof. Hrojve Jasak		
09:00-13:00	*"An Introduction to OpenFOAM: A User View"* presentation by Prof. Hrojve Jasak at the University of Ghent (May 2016) Part II	Daniel Wildt
Afternoon – Self organized learning		

Friday, 26th November 2021		
University of Natural resources and Life Sciences, Vienna (online)		
Course Summary, Evaluation		
09:00-10:00	Project presentations	Daniel Wildt
10:00-10:45	Course summary	Daniel Wildt
11:00-12:00	Evaluation, Feedback meeting	Daniel Wildt