

Winter/summer school programme and training of WB teaching staff at the University of Rijeka, Faculty of Civil Engineering (UNIRIFCE)

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Strengthening of master curricula in water resources
management for the Western Balkans HEIs and stakeholders
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Winter / Summer school – draft programme

POSSIBILITIES: „face-to-face“ or „on-line“

VERSION PRESENTED: on-line

DIFFERENCES: In case of „face-to-face“ school the topics will remain the same but reorganised with two days field work / visits included

FIELD WORK / VISITS: Water supply and sewage system of Rijeka
Hydropower plant in Rijeka and reservoir Valići
Coastal engineering structures in Rijeka and surroundings
Field work (water velocity measurement, using different equipment...)

Winter / Summer school (draft)

Monday Water management	Tuesday Drinking water supply	Wednesday Drainage (waste water / storm water) in urban/rural areas	Thursday Flood protection / Torrents	Friday Synthesis and discussion
Lectures + Students work (in groups)	Lectures + Students work (in groups)	Lectures + Students work (in groups)	Lectures + Students work (in groups)	Students' presentations (PPT) Poster preparation
Monday Hydraulic structures / Dams and reservoirs	Tuesday Coastal engineering	Wednesday Climate change and water management	Thursday Laboratory work	Friday Synthesis and discussion
Lectures + Students work (in groups)	Lectures + Students work (in groups)	Lectures + Students work (in groups)	Lectures + Students work (in groups) – regarding the experiments	Students' presentations (PPT) Poster preparation

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Winter / Summer school (draft)

Monday Water management	Tuesday Drinking water supply	Wednesday Drainage (waste water / storm water) in urban/rural areas	Thursday Flood protection / Torrents	Friday Synthesis and discussion
Lectures <ul style="list-style-type: none"> • Introduction • Water management in Croatia • Harmonization with EU directives • Water management institutions/agencies: Hrvatske vode ... - International commissions for protection of major river basins (ICPDR, ISRBC) - ... Students work (in groups)	Lectures <ul style="list-style-type: none"> • Introduction • Water supply systems • Management of WSS • Presentation of WSS in Croatia - Rijeka and Istria • Challenges in (future) water supply (DRINKADRIA project) Students work (in groups)	Lectures <ul style="list-style-type: none"> • Introduction • Drainage systems (waste water and storm water) • Management of DS • Presentation of DS in Croatia - Rijeka and Istria • Challenges in (future) drainage in urban/rural areas (RAINMAN project) Students work (in groups)	Lectures <ul style="list-style-type: none"> • Introduction • Types of floods • Flood mapping • Flood hazard and flood risk • INSPIRE Directive: spatial data sharing • Presentation of DAREFFORT Interreg project (Danube River Basin Enhanced Flood Forecasting Cooperation) Students work (in groups)	<ul style="list-style-type: none"> • During previous 4 days students have to prepare for each day a presentation on that day topic regarding their country / city / region • Those presentations will be held by students on Friday and based on all material analysed there will be a structured discussion • Each group will have to prepare a poster

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Winter / Summer school (draft)

Monday	Tuesday	Wednesday	Thursday	Friday
Hydraulic structures / Dams and reservoirs	Coastal engineering	Climate change and water management	Laboratory work	Synthesis and discussion
<p>Lectures</p> <ul style="list-style-type: none"> • Introduction • Dams and reservoirs in Croatia • Hydropower plants and HP systems • Water supply reservoirs • Presentation of interesting HP and other systems with dams and reservoirs (HE Rijeka, HE Senj, HE Tribalj, HE in Drava river basin, reservoirs in Istria) <p>Students work (in groups)</p>	<p>Lectures</p> <ul style="list-style-type: none"> • Introduction • Marinas, beaches and other coastal structures • Presentation of interesting marinas, beaches and other coastal structures in Croatia • Advances in using photogrammetry.... Drones ... <p>Students work (in groups)</p>	<p>Lectures</p> <ul style="list-style-type: none"> • Introduction • Climate change/variations and its impact on water resources • Mitigation measures • Green infrastructure • Presentation of Danube Floodplain Interreg project <p>Students work (in groups)</p>	<p>Lectures</p> <ul style="list-style-type: none"> • Introduction • Presentation of hydraulic laboratory for research and for teaching • Experiment 1 • Experiment 2 <p>Students work (in groups) – regarding the experiments</p>	<ul style="list-style-type: none"> • During first 3 days students have to prepare for each day a presentation on that day topic regarding their country / city /region • Those presentations will be held by students on Friday and based on all material analysed there will be a structured discussion • Each group will have to prepare a poster

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Training of WB teaching staff – 5 days

POSSIBILITIES: „face-to-face“ or „on-line“

Face to face:

- participation in teaching / exercises / field work / visit to ...
- work with equipment in laboratory and in the field
- present and exchange good practices (e-learning, students' work assesment, plagiarism detection...)
- presenting the QA system at the UNIRIFCE

On – line: same as above but without field work / visits

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Thank you for your attention!