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# Presentation of the University of Rijeka, Faculty of Civil Engineering

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University of Rijeka, Faculty of Civil Engineering

Kick-off meeting – Niš / 20.12.2018.

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University of Nis



[www.swarm.ni.ac.rs](http://www.swarm.ni.ac.rs)

**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





## The city of Rijeka



Rijeka, with its 200,000 inhabitants, is the third largest Croatian city and the largest Croatian port, situated on the Kvarner Bay.

## University of Rijeka – General Info



3rd Croatian university per size

Founded in 1973

Consists of 10 faculties, 4 university departments, 1 academy,  
university library and student centre

# UNIRI member institutions

## • FACULTIES

- Academy of Applied Arts
- Faculty of Economics
- Faculty of Tourism and Hospitality Management
- Faculty of Humanities and Social Sciences
- **Faculty of Civil Engineering**
- Faculty of Medicine
- Faculty of Health Studies
- Faculty of Maritime Studies
- Faculty of Law
- Faculty of Engineering
- Faculty of Teacher Education

## • University Library Rijeka

## • Student Centre



## ▶ DEPARTMENTS

- University Department of Biotechnology
- University Department of Physics
- University Department of Informatics
- University Department of Mathematics

## University of Rijeka – General Info



Number of students: ~ 16 000

No. of teaching personnel: ~ 1000

No. of non-teaching personnel: ~ 500

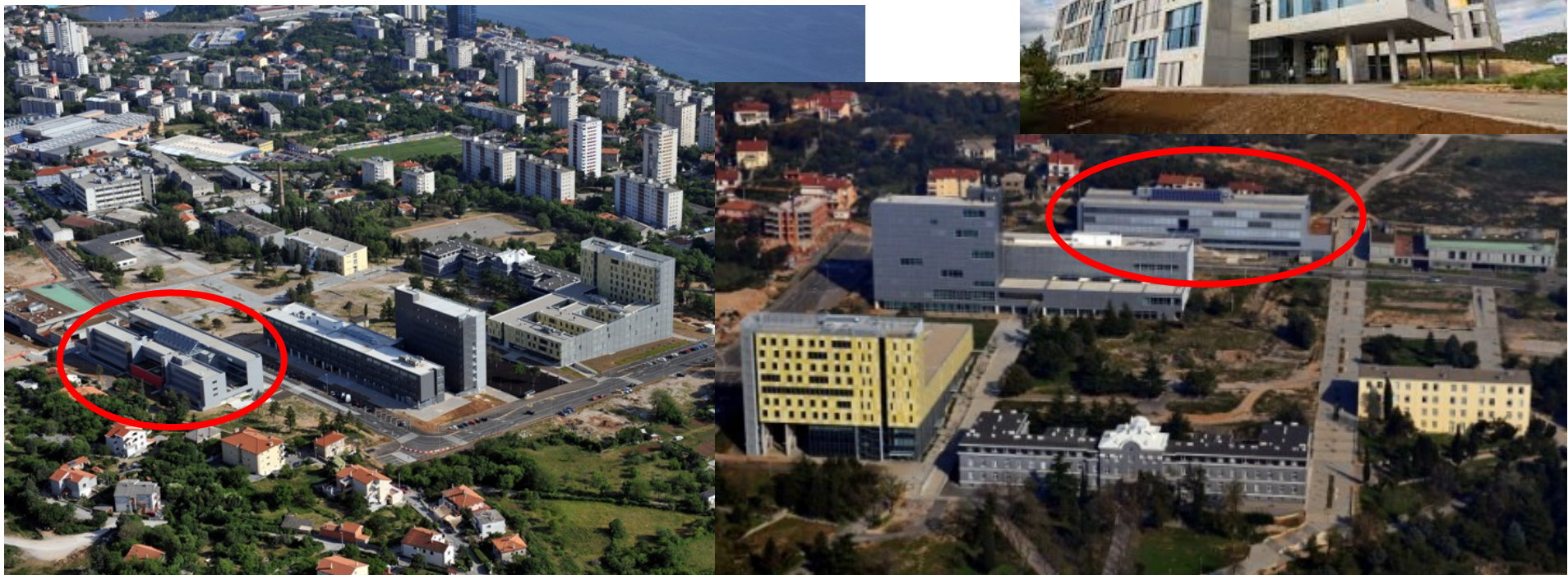


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# Faculty of Civil Engineering

Located in the University of Rijeka Campus



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

[www.swarm.ni.ac.rs](http://www.swarm.ni.ac.rs)



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# Faculty of Civil Engineering



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# Faculty of Civil Engineering







- The Faculty of Civil Engineering began as the College of Civil Engineering in 1969.
- In 1971 programme in Civil Engineering was started within the Faculty of Engineering in Rijeka
- Since 1976 Faculty of Civil Engineering is independent



#### UNIVERSITY PROGRAMMES

UNDERGRADUATE PROGRAMME IN CIVIL ENGINEERING  
180 ECTS credits  
University bachelor in civil engineering (BSc)

GRADUATE PROGRAMME IN CIVIL ENGINEERING  
120 ECTS credits  
Master in Civil Engineering (MSc)

POSTGRADUATE PROGRAMME IN CIVIL ENGINEERING  
180 ECTS credits  
Doctor in Civil Engineering (PhD)

#### VOCATIONAL PROGRAMMES

UNDERGRADUATE STUDY PROGRAMME IN CIVIL ENGINEERING  
180 ECTS credits  
*Vocational Bachelor in Civil Engineering (BEng)*

SPECIALISATION GRADUATE PROGRAMME IN CIVIL ENGINEERING – Building in Coastal Region and Infrastructural Engineering  
120 ECTS credits, Specialist in Civil Eng.

~700 students



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## DEPARTMENT OF HYDROTECHNICAL AND GEOECHANICAL ENGINEERING:

- Chair for Hydrotechnical Engineering
- Chair for Geotechnical Engineering
  
- Laboratory for Hydrotechnical Engineering
- Laboratory for Geotechnical Engineering

MONOGRAPHY – Overview of Department activities in last 10 years (Croatian):

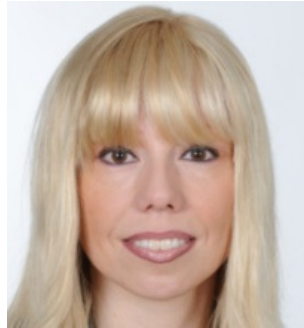
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- Chair for Hydrotechnical Engineering  
- Laboratory for Hydrotechnical Engineering



Full Prof.  
NEVENKA OŽANIĆ



Full Prof.  
BARBARA KARLEUŠA



Assoc. Prof.  
VANJA TRAVAŠ



Assist. Prof.  
GORAN VOLF



Assist. Prof.  
JOSIP RUBINIĆ



Assist. Prof.  
IGOR RUŽIĆ



Assist. Prof.  
ELVIS ŽIC



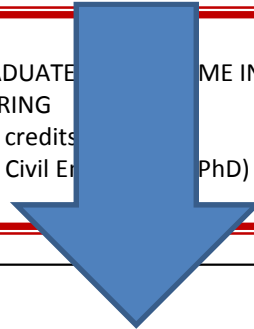
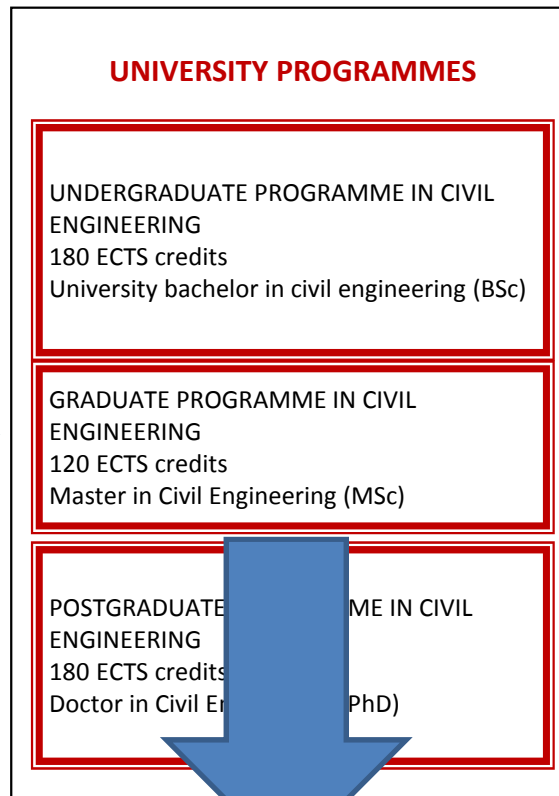
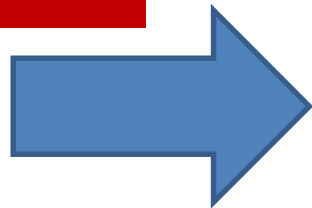
Assist. Prof.  
NEVENA DRAGIČEVIĆ



Assist. Prof.  
NINO KRVAVICA



IVANA SUŠANJ ČULE,  
PhD



Branches in civil engineering (MSc):

- hydrotechnical engineering
- urban engineering
- ...

- **Hydrotechnical Engineering:**

Branches in CEng (MSc):

| Compulsory courses                        | ECTS       |
|-------------------------------------------|------------|
| Hydraulics                                | 5,0        |
| Water Supply and Drinking Water Treatment | 6,0        |
| Drainage and Wastewater Treatment         | 6,0        |
| Hydraulic Structures                      | 6,0        |
| Engineering Hydrology                     | 6,0        |
| Hydraulic Regulations and Meliorations    | 6,0        |
| Coastal Engineering                       | 6,0        |
| Elective courses                          | ECTS       |
| Experimental Hydraulics                   | 4,0        |
| <b>Water Management</b>                   | <b>4,0</b> |
| Karst Hydrosystems                        | 4,0        |
| Waste Management                          | 4,0        |
| Hydraulic Modelling                       | 4,0        |
| Water Power Development                   | 4,0        |

- **Urban Engineering:**

| Compulsory courses                        | ECTS       |
|-------------------------------------------|------------|
| Urban Water Systems                       | 6,0        |
| Elective courses                          | ECTS       |
| Hydraulics (compulsory/elective)          | 5,0        |
| Water Supply and Drinking Water Treatment | 6,0        |
| Drainage and Wastewater Treatment         | 6,0        |
| <b>Water management</b>                   | <b>6,0</b> |
| Engineering Hydrology                     | 6,0        |
| Hydraulic Regulations and Meliorations    | 6,0        |
| Coastal Engineering                       | 6,0        |



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Project: „Development of research infrastructure for laboratories at the University of Rijeka Campus” - RISK



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Ministarstvo  
znanosti,  
obrazovanja  
i sporta

Projekt je sufinancirala Europska unija iz Europskog fonda za regionalni razvoj.  
Sadržaj ove publikacije isključiva je odgovornost Sveučilišta u Rijeci.

CATALOGUE OF ALL LABORATORY EQUIPMENT AT  
THE UNIVERSITY OF RIJEKA CAMPUS (English):

<https://www.uniri.hr/files/risk/Znanstvena%20oprema%20RISK.pdf>

CATALOGUE OF LABORATORY EQUIPMENT ONLY AT  
THE FACULTY OF CIVIL ENGINEERING (Croatian):

[https://www.uniri.hr/files/risk/Katalog\\_GRADRI.pdf](https://www.uniri.hr/files/risk/Katalog_GRADRI.pdf)





## Laboratory for Hydrotechnical Engineering



Project: „Development of research infrastructure for laboratories at the University of Rijeka Campus”

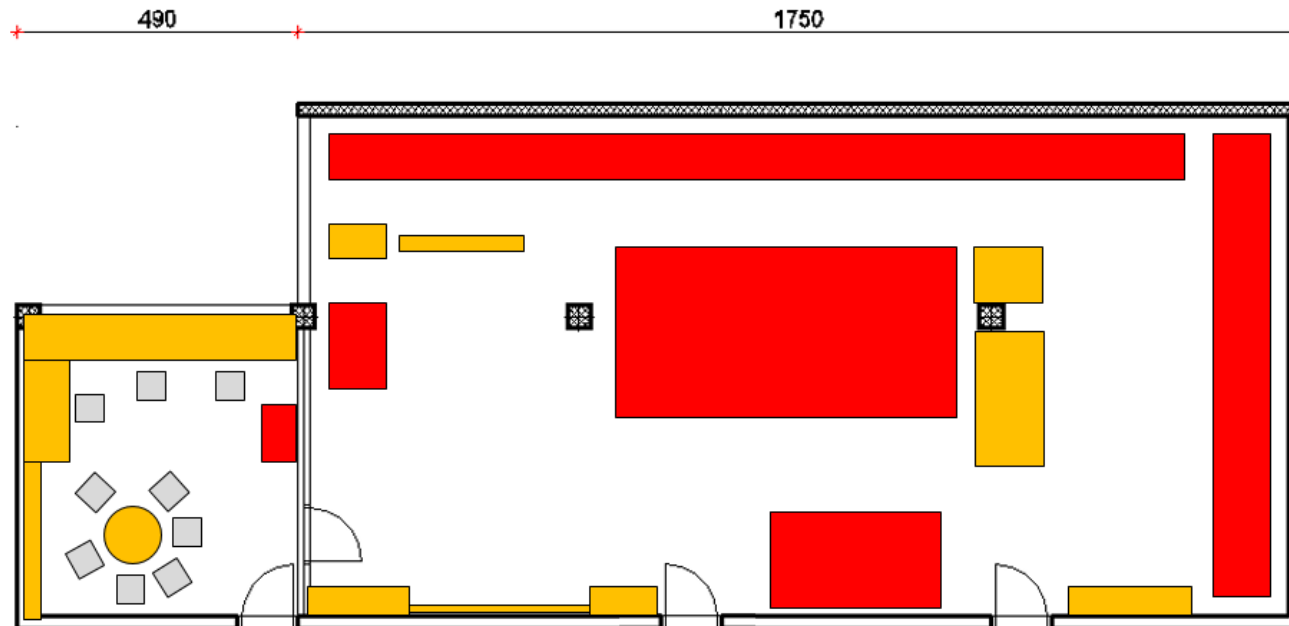


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## Laboratory for Hydrotechnical Engineering



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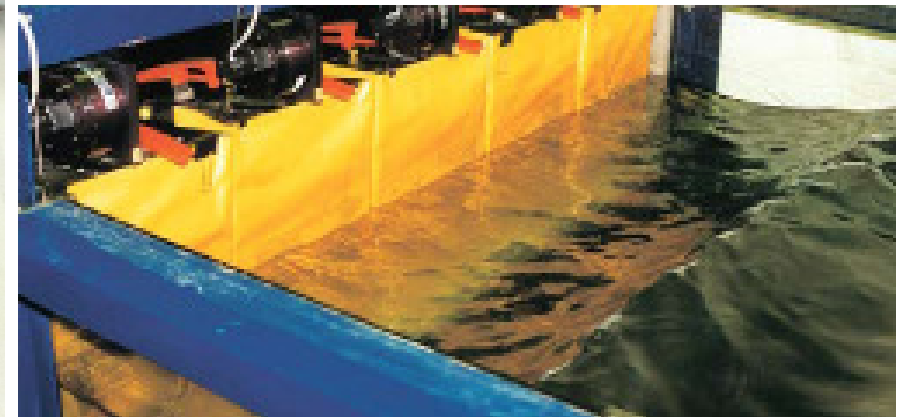


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*Experimental basin  
with wave generator*





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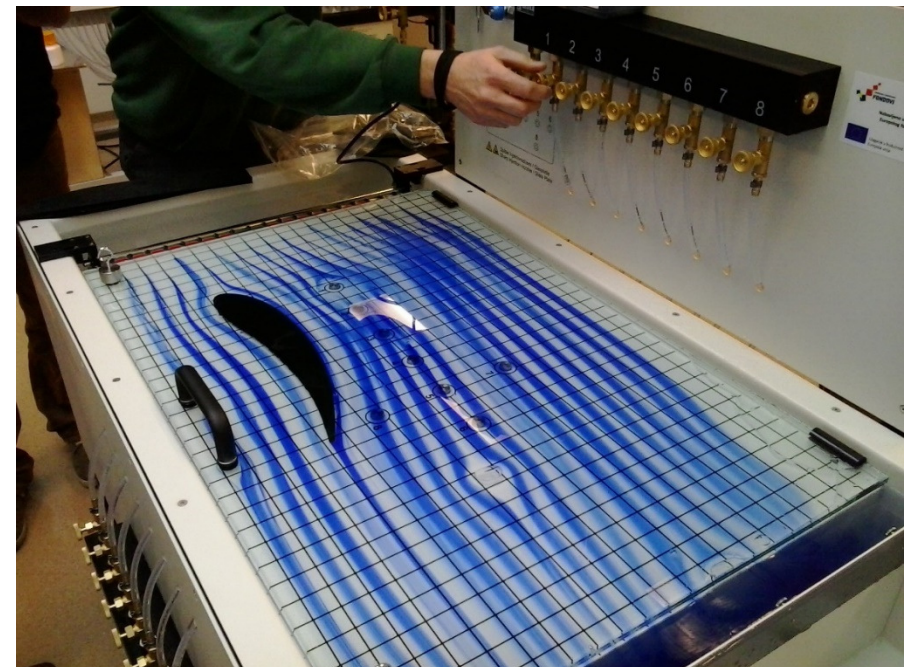
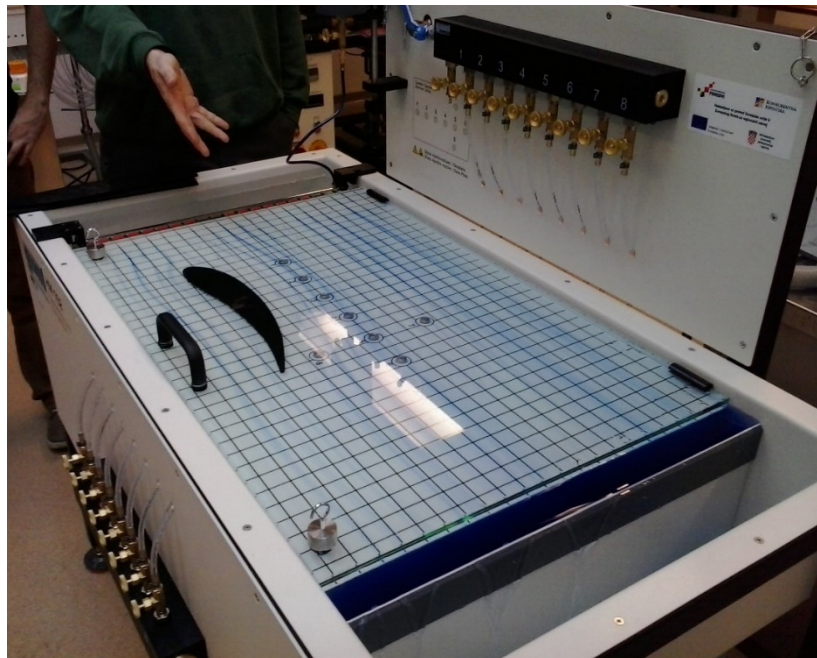


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## Modelling the laminar flow





## Laboratory for Hydrotechnical Engineering



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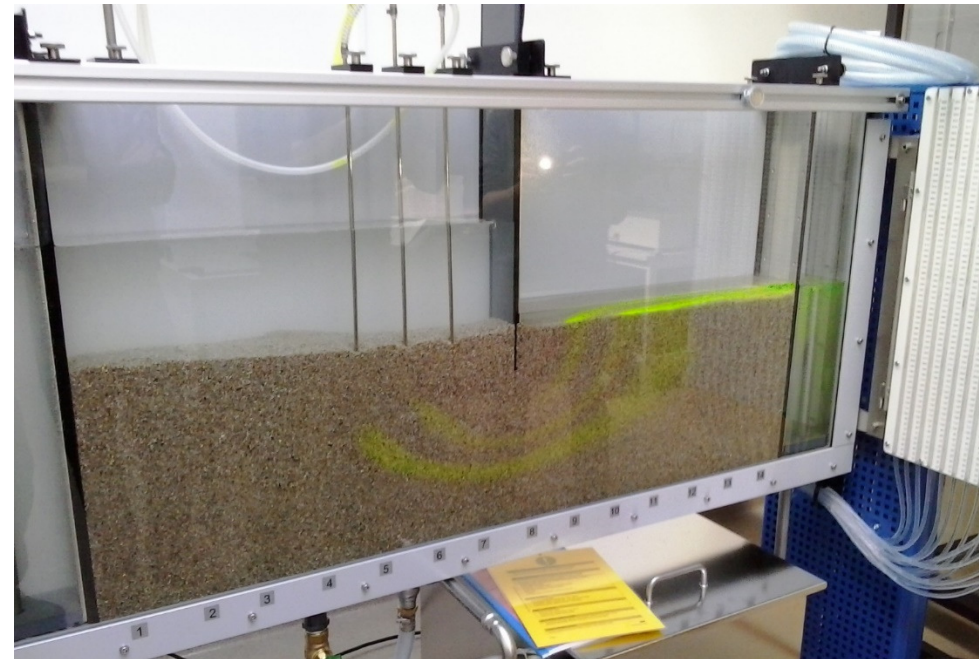


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Modelling the flow of  
fluid through a porous  
medium





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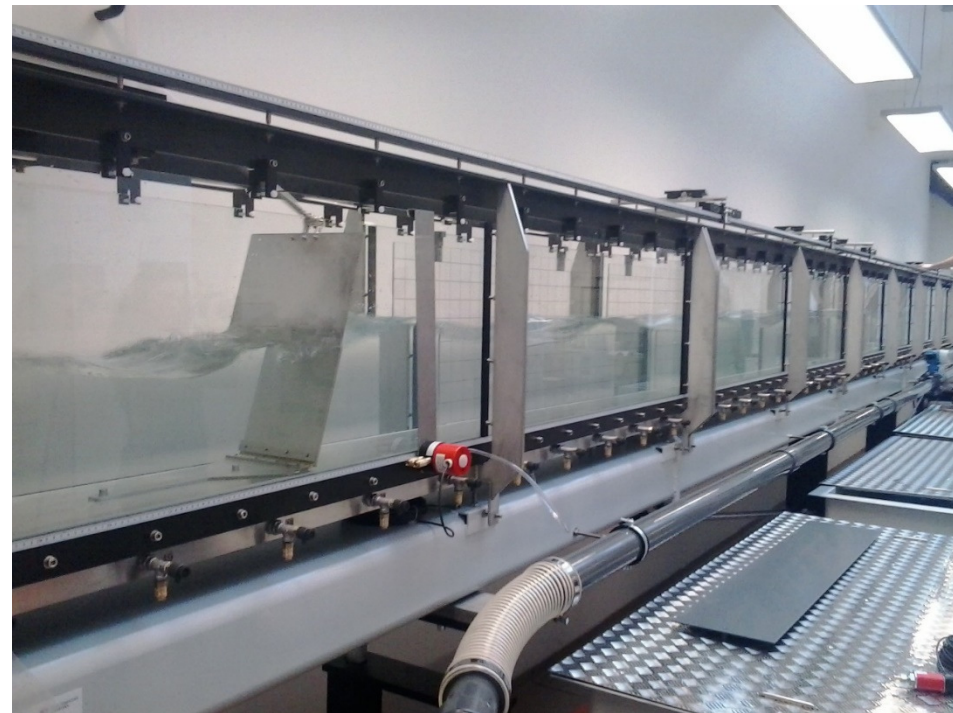
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Hydraulic flume





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### Chamber for modelling the rain impact on ...





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Wind tunnel



3D printer





## UNIFCE activities within the Project:

- take part in workshop on innovative practices in the EU water sector, preparation list of laboratory equipment, analysis of EU recommendations and legislation in water resources management and analyse of existing curricula in water resources management in EU
- take part in preparing SWARM set of novel courses in WRM that can help WB partners in creation new or strengthen existing master curricula
- **3-day training with participations of WB teaching staff September 2019 – at UNIRIFCE (16 teaching staff)**
- take part in preparing Dissemination and Exploitation Plan and actively involved in dissemination of project activities, objectives and results, take part in symposia for promotion WRM in WB partner countries





## UNIFCE activities within the Project:

- students' short-time mobility from WB to EU partner HEIs is planned, **winter school - February 2021 at UNIRIFCE in duration of 5 days** will be organized with a participation of 13 WB students per school
- be members of Quality Assurance Committee and take part in creation of Quality and Assurance Plan and in organisation of Quality Assurance Committee meetings
- contribute to preparation of Project management and reporting guide
- take part in meetings and prepare necessary documentation for interim and final report



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## Contacts

[www.gradri.uniri.hr](http://www.gradri.uniri.hr)

<http://gradri.uniri.hr/en/> in English language

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Thank you for  
your attention!