

The potential of Nature-based solutions (NBS) for water resources management in Mediterranean medium-sized cities in the context of climate change



SUMMER SCHOOL

Girona, June 20th - July 1st 2022

WATER RESOURCES and ENVIRONMENTAL CHANGE

Erasmus Blended Intensive Program (BIP)

Organizers



Erasmus+

Universitat de Girona

Co-organizers



Fundació Solidaritat
UNIVERSITAT DE BARCELONA

June 20th – July 1st 2022

Program

Aim

The Summer School is a 2-week intensive collaborative knowledge-creation experience for students, teachers, partners and local stakeholders.

The first week is on on-line mode and includes formation about Problem-based learning (PBL) methodology and about NBS for Water Resources management in the context of Med cities, complementary conferences and PBL autonomous work.

The second week deals with the case study of Girona city where students will work with groups using the PBL methodology the following topics:



How can mid-size cities face challenges related to global environmental change and the climate emergency through Nature Based Solutions (NBS)?



How can water cycle related NBS contribute to:

Mitigate the heat island effect and heat waves?

Urban food supply, food sovereignty and gastrotourism?

Flood prevention and biodiversity conservation

Working languages

English

It provides

3 ECTS credits

Accommodation

Rental bike

Contribution to living expenses

We look forward to co-creating this Summer School together with all of you!



Participant
Universities



University of Ljubljana



Università
di Genova

First week : June 20th – June 24th

on-line week

Date and time		Topics	Activity	Groups	Speaker/Dinamyser
Monday 20	10:00 - 11:00	Intro to the course, agenda PBL Methodology	Online talk	All groups	Ignasi Rodríguez-Roda (University of Girona-UdG)
	11:00 - 12:30	PBL session I	Breakout rooms	Group 1	Ignasi Rodríguez-Roda (University of Girona-UdG)
				Group 2	Antonina Torrens (Solidarity Foundation University Barcelona-FSUB)
		PBL autonomous work		Group 3	Pere Olives (University of Girona-UdG)
Tuesday 21	10:00 - 12:30	Nature Based Solutions for food production in cities: the Edicinet project	Seminars and discussions	All groups	Ina Samuel (Humboldt University-HU)
		Resources flows in cities: towards circularity			Natasha Atanasova (University of Ljubljana-UL), Joaquim Comas (University of Girona, UdG- Catalan Institute for Water Research-ICRA)
		Nature-Based Solutions and biodiversity in cities			Latifa Bousselmi, Lamia Bouziri (Research in action Association-REACT)
		PBL autonomous work			
Wednesday 22	10:00 - 11:00	Greening cities and environmental justice	Seminars and discussions	All groups	Alexandra Popartan (University of Girona-UdG)
	11:15 - 12:30	PBL session I	Breakout rooms	Group 1	Ignasi Rodríguez-Roda (University of Girona-UdG)
				Group 2	Antonina Torrens (Solidarity Foundation University Barcelona-FSUB)
		PBL autonomous work		Group 3	Pere Olives (University of Girona-UdG)
Thursday 23	10:00 - 12:30	Making cities green and edible integrating Nature-Based Solutions in building projects	Seminars and discussions	All groups	Felix Mollenhauer (German federation of building greening, BUGG)
		Social and cultural impact of Edible Nature-Based Solutions			Prinzessinnengarten Kollektiv Berlin. TO CONFIRM
		PBL session I			Group 1
		PBL autonomous work		Group 2	Antonina Torrens (Solidarity Foundation University Barcelona-FSUB)
				Group 3	Pere Olives (University of Girona-UdG)
Saturday 25	Arrival to Girona city and accommodation				
Sunday 26					

Second week: June 27th – July 1st

Case Study

Location

Study area:

Girona city,
Catalonia (SP)

Working

location:

Girona University,
Catalonia (SP)

Accommodation:

Hotel Peninsular,
Girona city,
Catalonia (SP)

face-to-face week

Date and time	Topics	Activity	
Monday 27	Introduction to the case study, week agenda, work methodology, expected outputs, practicalities, etc. Presentation of the Project Based Learning cases by local stakeholders: <ul style="list-style-type: none"> Girona council – UMAT / Environment Department: Urban climate and green-blue infrastructure. Girona Council – Tourism / Environment Department: Menja't Girona (Eat Girona Next Generation project) UdG – Anna Ribas: Historic water management, floods, flood risk and NBS Sorelló – Quim Pou: River system conservation and regeneration challenges and projects 	Introduction to the case study (Classroom)	
	9.00 - 13.00		
	13.00 - 14.00	Lunch in university canteen	Lunch break
	14.00 - 16.00	Students split in 3 groups according to the Project Based Learning selected topic and start to devise main research questions and creative solving resources and ideas.	Team work
	16.00 - 18.00	Free time	
	18.00 - 20.00	City tour: historic-cultural visit of the city with the local tourist guide Maria Rizzolo. End: local deluxe ice cream at Rocambolesc (paid by each one)	
20.00 - 22.00	Dinner in local restaurant: Le Bistrot charming city center restaurant		
Tuesday 28	Cycling the waterscape of Girona. Cycling tour starting from the city center (Town Hall). Stops: <ul style="list-style-type: none"> Ribes del Ter & Devesa: Olga Felip – Four rivers Project Santa Eugènia urban agriculture plots: Cristian Geiss – Local council Environmental officer Deveses d'en Bru wetlands – Local council Environmental officer The Water Museum: Teia Puigvert – River Ter Consortium Molí hydropower plant Back to the Sciences Faculty	Field trip	
	09.00 - 13.00		
	13.00 - 15.00	Lunch in university canteen	Lunch break
	15.00 - 18.00	Project Based Learning autonomous work	Team work
	18.00 - onwards	Free time and free arranged dinner	
Wednesday 29	Project Based Learning autonomous work	Team work	
	09.00 - 12.30		
	12.30 - 13.40	Lunch in university canteen	Lunch break
	13.30 - 15.00	Presentation of first ideas, designs and results to local stakeholders and feedback discussion.	Discussion
	15.00 - 17.00	Project Based Learning autonomous work	Team work
	17.00 - 19.00	Free time	
19.00 - 22.00	Low-carbon landscape eaters experience: Walking tour to Sant Daniel, along the Fringes Project (periurban landscaping), with outdoors gathering with members of the 4 organic consumers' groups in Girona, and meal with locally sourced products.		
Thursday 30	Project Based Learning autonomous work (lunch in University Canteen)	Team work	
	09.00 - 17.00		
17.00 - onwards	Free time and self-arranged dinner		
Friday 1	FINAL PRESENTATIONS		
	10.00 - 13.00		
13.00 - 20.00	Free time		
20.00 - onwards	Farewell dinner in local restaurant		
Saturday 25	Return Travels		