



**dAeD**  
ARCHITETTURA E DESIGN

**BIP**  
BIOLOGICAL INSPIRED PROCESS

# WELCOME TO DESIGN

UNIVERSITÀ MEDITERRANEA

## BIP Nature - Driven - Design

Mediterranea Reggio Calabria - Italy

IPVC Viana do Castelo - Portugal

FMV Isik Istanbul - Türkiye

APRIL  
MAY

2025



# BIP Nature - Driven - Design

## Biophilic Design

IN A MEDITERRANEAN AREA

CALL  
2025

Reggio Calabria  
April – May 2025

21-23 April 2025

On line seminars

*Introduction on bio inspired design*

*Designing with Nature's wisdom*

*We meet habitats and their inhabitants*

*Sustainable strategies and choices in Design*

*Temporary Shelter of Nature Tourism*

5-9 May 2025

**Reggio Calabria University**

Exploring Climate Change in the Mediterranean

**Two-Day Field Experience:** Participants will immerse themselves in Aspromonte's diverse humid environments ecosystems.

**Three Days workshop on Biophilic Design:** Participants will gain theoretical and practical skills to create spaces—from urban to interior scales—that enhance human well-being by connecting with Nature.

Project code: 2023-1-IT02-KA131-HED-000127198-2

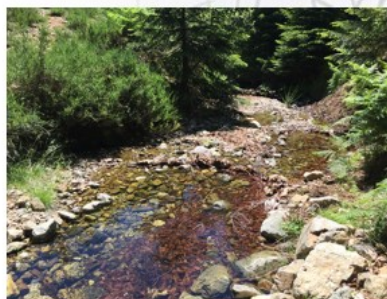
# BIP Nature - Driven - Design

2025

The Department of Architecture and Design-dAeD- of the University Mediterranea of Reggio Calabria (Italy), together with the IPVC of Viana do Castelo University (Portugal) and the FMV Isik University (Türkiye) is organising a Blended Intensive Programme (BIP) on Nature-Driven Design in a Mediterranea area with a biophilic approach.

Climate change poses one of the greatest challenges of our time, with the Mediterranean among the most vulnerable regions. Water scarcity—a widespread issue in many Mediterranean countries—is projected to worsen, making it crucial to understand and measure climate change impacts. Humid environments, such as wetlands, peat bogs, and swamps, serve as early indicators of these changes due to their reliance on delicate water balances and unique ecological conditions.

The BIP Program explores innovative solutions. By integrating natural elements into the spaces where we live and work, this program emphasizes the connection between people and their environment, fostering both physical and mental well-being. Participants will engage directly with vulnerable ecosystems to deepen their understanding of climate impacts and nature's invaluable role in human life.



Join the BIP Program 2025

[aurora.pisano@unirc.it](mailto:aurora.pisano@unirc.it)

Project proposal by:  
Bagnato Francesco  
Bonsignore Peter Carmelo  
De Capua Alberto  
Fuschi Paolo  
Pisano Aurora Angela



The project involved 16 students from Turkey and Portugal, two Turkish teachers, five Italian teachers, and 11 students from a third-year design class made up almost entirely of foreign (Erasmus) students.

## BLENDING PROGRAM

22 -23 April

[BIP2025 Nature-Driven-Design in a Mediterranean Area | General | Microsoft Teams](#)

1) Professor **Aurora Pisano** Introduction and project presentation

2) Professor **Carmelo Peter Bonsignore**

Title: **Design in nature, we meet habitats and their inhabitants - "Arthropods-inspired design"**

*The short seminar will address the conditions of stress and impact of anthropic changes on some fragile habitats and their inhabitants. Insects and arthropods, often unknown elements but fundamental to characterize the different ecosystems and for biodiversity, can provide precise and interesting ideas to raise awareness among humans in the defense and conservation of habitats and provide elements, often unique, for a bio-inspired Design*

3) Professor **Elif Syk Makaklı**

Title: **Understanding Nature, Recognizing Its Power, and Harmonizing with It: The Fundamental Principle for Achieving Architectural Integrity"**

*Achieving architectural integrity requires a profound understanding of nature and its inherent forces. Recognizing nature's power and integrating it into the design process is essential for creating architecture that is both sustainable and contextually meaningful. Respecting nature's balance and the responsible use of natural resources is an environmental responsibility and a creative approach to design. By establishing a harmonious relationship with nature, architecture can effectively address both environmental and human needs, creating spaces that resonate with their natural surroundings.*

4) Professor **Luis Mota**

Title: **Temporary Shelter of Nature Tourism**

*The theme was the realization of a small bungalow-type living space for a rural area.*

5) Project ideas from Students of the course Shape and Structure (professor Aurora Pisano) III Year of the Design Bachelor Course

#### Group 1

Title: Aspromonte Natural Park : natural paths and their communication

Students: Alisa **Karaulshchikova**, Zofia Helen **Simon**, Dominik **Daucso**.

#### Group 2

Title: Syn Sphere: Installations in natural environments

Students: Martina **Riveiro Henares**, Carme **Fachal Huguet**, Miriam **Mari Gonzalez**.

#### Group 3

Title: Lake Angitola: design view points and outdoor furniture

Students: Laura **Moya Manzano**, Irene **Valenzuela Garcia**.

#### Group 4

Title: Design of small shelters...for animal observations

Students: Hilan **Sena Atak**, Eda Nur **Colak**, Aleya **Kalktik**.

Discussion for further developments of the projects that the students will complete during their stay in Reggio Calabria.



## **In presence activities 5-10 MAY**

**Two-Day Field Experience:** Participants will immerse themselves in Aspromonte's diverse humid environments ecosystems.

**Three Days workshop on Biophilic Design:** Participants will gain theoretical and practical skills to create spaces—from urban to interior scales—that enhance human well-being by connecting with nature.

### **One day**

Visit of the Building Future Lab (Directors: proff. Corrado Trombetta\Martino Milardi) dedicated to real-scale simulation of extreme natural events, hurricanes, earthquakes, thermal shocks

Visit to the Marine Energy Lab (Directors: proff. Pasquale Filianoti\Claudio De Capua) the peculiarity of the Laboratory was born is to increase the efficiency and eco-sustainability of already mature technologies (wind, photovoltaic, and hydraulic) and to improve the reliability of those still in development (offshore wind, marine currents, and wave power).

## **Detailed program**

### **5-10 May in Reggio Calabria**

**May 5** at University Mediterranea of Reggio Calabria

#### **Morning**

Arrive in Reggio Calabria

#### **Afternoon**

Welcome meeting and registration

Seminaries and

Activities in project lab

#### **Evening**

Welcome party at the student house\*

**May 6** at University Mediterranea of Reggio Calabria

#### **Morning**

Meeting and project lab

**Lunch University cafeteria\***

**Afternoon (seafront Reggio Calabria)**

Visit of the **Building Future Lab** (Directors: proff. Corrado Trombetta\Martino Milardi )

dedicated to real-scale simulation of extreme natural events, hurricanes, earthquakes, thermal shocks

Visit to the **Marine Energy Lab** (Directors: proff. Pasquale Filianoti\Claudio De Capua)

the peculiarity of the Laboratory was born is to increase the efficiency and eco-sustainability of already mature technologies (wind, photovoltaic, and hydraulic) and to improve the reliability of those still in development (offshore wind, marine currents, and wave power).

### **May 7** Aspromonte National Park

Route: Bosco Tre Limiti - Diga del Menta – Terreni Rossi – Gambarie d'Aspromonte

|            |                                                                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Hour 08.30 | Meeting at the University parking lot and departure by bus- Short stop in Santa Domenica di Terreti- Short stop at the Torrente Annunziata bridge |
| Hour 10.30 | Bosco Tre Limiti stop: Trail towards Cascade dell'Amore                                                                                           |
| Hour 12.00 | Departure towards the Menta dam                                                                                                                   |
| Hour 12.30 | Arrival at the dam, short story about the history of the reservoir                                                                                |
| Hour 14.00 | Arrival in Gambarie and lunch break                                                                                                               |
| Hour 15.00 | Departure for the Bosco delle Fate locality – Start of the trail- Trail in Bosco di Gambarie locality towards Terreni Rossi                       |
| Hour 17.00 | Departure from SP3 - Terreni Rossi                                                                                                                |
| Hour 18.00 | Arrival at the Hotel (Gambarie d'Aspromonte)* only for foreigner students and teachers, students from Reggio Calabria will go back to Reggio.     |
| Hour 18.00 | Dinner at the hotel*                                                                                                                              |

Accompanying The outing will be led by Proof: Aurora Pisano, Carmelo Peter Bonsignore, Bagnato Francesco, De Capua Alberto, Paolo Fuschi all Design teachers, by an Official and Exclusive Guide of the Aspromonte National Park, an expert entomologist assisted by a naturalist and entomologist, both specialized in environmental education and interpretation and with skills in group management.

Personal Kit: Notebook, colored pencils, camera

Clothing: Clothing suggested varies according to the type of itinerary you are taking; in any case, you should bring a waterproof jacket, fleece, a T-shirt, a pair of spare socks, a hat and a pair of shoes suitable for walking in the woods.

Itineraries: Locations of the entire Aspromonte National Park. Generally speaking, for walking, you use roads inside the woods that are identified and listed in the Park's Trail Registry..

### **May 8** Aspromonte National Park

Hour 08.00 Meeting at the University car park and departure by coach for students of Reggio Calabria university

Arrival in Gambarie d'Aspromonte, short stop and departure for Cittanova

Arrival in Cittanova, short visit to the Botanical Garden and departure for canolo

Hour 11.00 Arrival in Canolo Nuovo, visit to the Special Conservation Area (SAC) "Torbiera di Canolo"

Hour 13.00 13.00 Lunch break in the picnic area in Zomaro

Hour 14.15 Departure towards Gerace

Hour 15.00 Arrival in Gerace, visit to the historic centre

Hour 16.00 Departure for Brancaleone

Hour 17.00 Visit to the beaches colonised by Caretta Caretta

Hour 17.40 Departure from Brancaleone

Hour 18.30 Arrival in Reggio Calabria

### **May 9** at University Mediterranea of Reggio Calabria

#### **Morning**

Final workshop, discussion and presentation of the student projects

#### **Lunch University cafeteria\***

### **May 10**

Visit of the Reggio Calabria city



## **Results**

The students, organized into mixed nationality groups, discussed four project ideas and presented their projects using a PowerPoint presentation and a final cover page. The teachers judged the works and drew up a ranking of the four **projects listed below.**

### **Group 1**

Title: Dream Apper : Tree House

Students: Alisa Karaulshchikova, Zofia Helen Simon, Dominik Daucso. Bruna Costa, Joana Correia, Berk Okay.

### **Group 2**

Title: SynSphere: Installations in natural environments

Students: Martina Riveiro Henares, Carme Fachal Huguet, Miriam Mari Gonzalez, Alícia Vilhena, Cláudia Fernandes, Mariana Marinho , Gizem Şermet.

### **Group 3**

Title: Lake Angitola: view point.

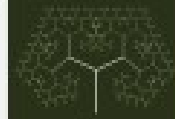
Students: Laura Moya Manzano, Irene Valenzuela Garcia, André Andrade, Carla Pereira, Rita Monteiro, Ceyda Dişli.

### **Group 4**

Title: Design of small shelters ASPIRA

Students: Hilal Sena Atak, Eda Nur Colak, Aleyna Kalktik, Aurélio Aguiar, Beatriz Neiva, Ceylin Kubal.

# DREAM UPPER



This treehouse will be placed in the trees along the paths of the Aspromonte National Park.

The outer design of the logs features a stylized tree, while the name cleverly plays on words, symbolizing the phrase "dream high and bigger."

Inside the house there are seats and tables, where you can sit down to enjoy a good lunch, check the map and admire a magnificent view.

The materials used are stainless steel for the entire load-bearing structure of the house and the staircase, wooden planks for steps, roofing and flooring, tempered glass for the windows.

Access to the house is via a spiral staircase which is supported mainly by the steel load-bearing structure which is well fixed to the ground.



Group 4:  
Alisa Karaulichikova, Zsófia Simon, Doménik Dausch, Bruno Costa, Joana Correia, Berk Okay





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# ASPIRA

Biophilic Designed Shelter

ASPROMONTE

RESPIRARE



SPIRALE



Italian Wolf  
(Canis lupus italicus)



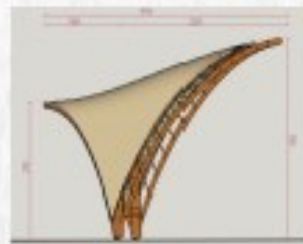
Italian Wolf  
(Canis lupus italicus)



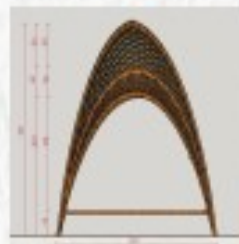
Apennine Mountain Goat  
(Capra pyrenaica ornata)



S  
K  
E  
T  
C  
H  
E  
S



Dimensions



MODULAR

ADAPTABLE

SUSTAINABLE



Recycled PVC-coated polyester



Materials

Glue laminated timber



GROUP 4  
EDA NUR ÇOLAK / ALEKSA KOČETIK / İLDAI SENA ATAK / AURELIO AGUIAR / BEATRIZ NEIVA / CÜYLİN KUBAL





# SynSphere



THE PROJECT AIMS TO CREATE A SUSTAINABLE AND HARMONIOUS SPACE WITHIN THE FOREST AND LAKE, INTEGRATING ARCHITECTURE AND DESIGN WITH NATURE IN AN ORGANIC AND RESPECTFUL WAY.

ECOLOGICAL MATERIALS AND STRUCTURES ADAPTED TO THE LANDSCAPE WILL BE USED TO MINIMIZE ENVIRONMENTAL IMPACT.



## OBJECTIVE



Foster connection and respect for nature

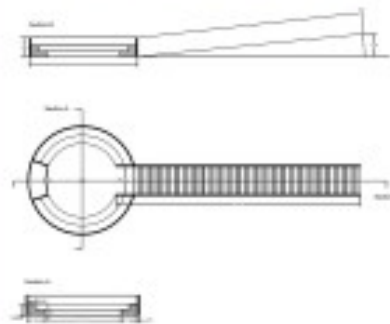


Educate about local biodiversity



Provide a sustainable space for contemplation

## PLAN AND SECTIONS



## MATERIALS



STAINLESS STEEL



HDPE



CHESTNUT TREE

## RENDER PICTURES

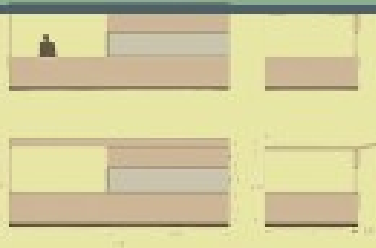


Martina Riviere, Carine Pochet, Miriam Martí, Oliver Bernier, Mariano Malincha, Alicia Vilanova, Cécilia Fernandez





## LAKE ANGITOLA VIEWPOINT

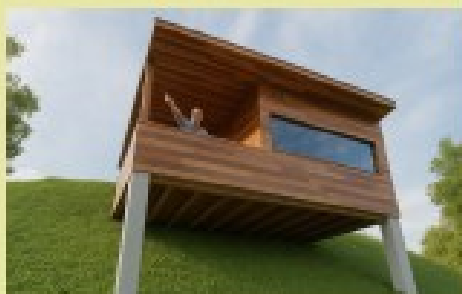
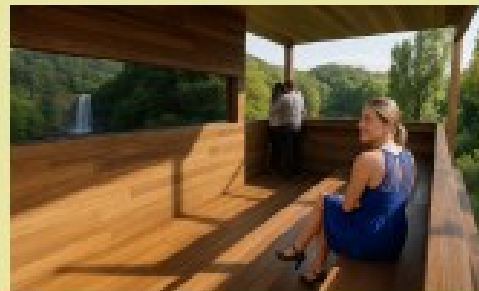


The lookout point will be situated atop the mountain hill, offering panoramic views of Lake Angitola.

The logo features a house-shaped outline, inspired by the form of the viewing platform.

Within the house silhouette, illustrations of the lake and surrounding mountains represent the scenic landscape visible from the lookout.

The structure will be constructed using teak wood and tempered glass.



The design follows a rectangular layout, elevated on a base made of stainless steel grid.

Access is provided through both stairs and a ramp, ensuring accessibility.

Seating is positioned exclusively on the left side of the viewing platform.

The structure is partially covered—one section incorporates glass, while the other is enclosed with railings only.

Irene Valenzuela . Laura Moyá . André Andrade . Rita Monteiro . Carla Pereira . Cayde Dixit

