



**Face-to-face training in FEUP**

# **PROGRAMME**

FEUP, Porto, 4-8 May 2026



Co-funded by the  
Erasmus+ Programme  
of the European Union

**U. PORTO**  
FEUP FACULDADE DE ENGENHARIA  
UNIVERSIDADE DO PORTO



**Promoting Sustainable, Affordable Housing Construction Technologies  
Using Environmentally Sound Locally Available Resources - PURSUE**

## **ORGANIZATION**



Co-funded by the  
Erasmus+ Programme  
of the European Union

## **INSTITUTIONAL SUPPORT**



## **WIRELESS NETWORK**

Connect your mobile device to the UPorto wifi network. Open a browser and enter the portal to the following credentials:

Username: pursue2026

Password: pursue2026@feup

## **PARTICIPATING INSTITUTIONS**

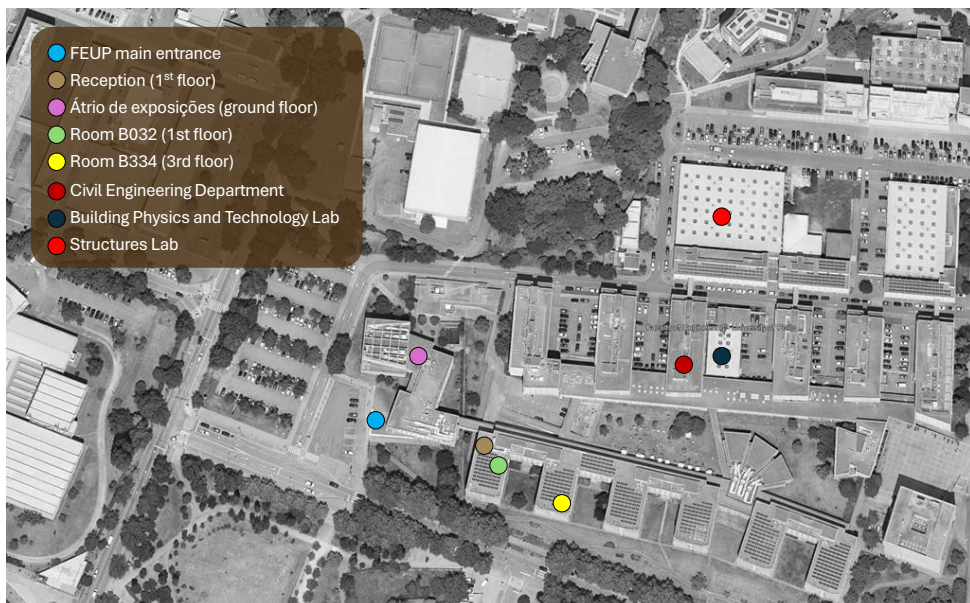
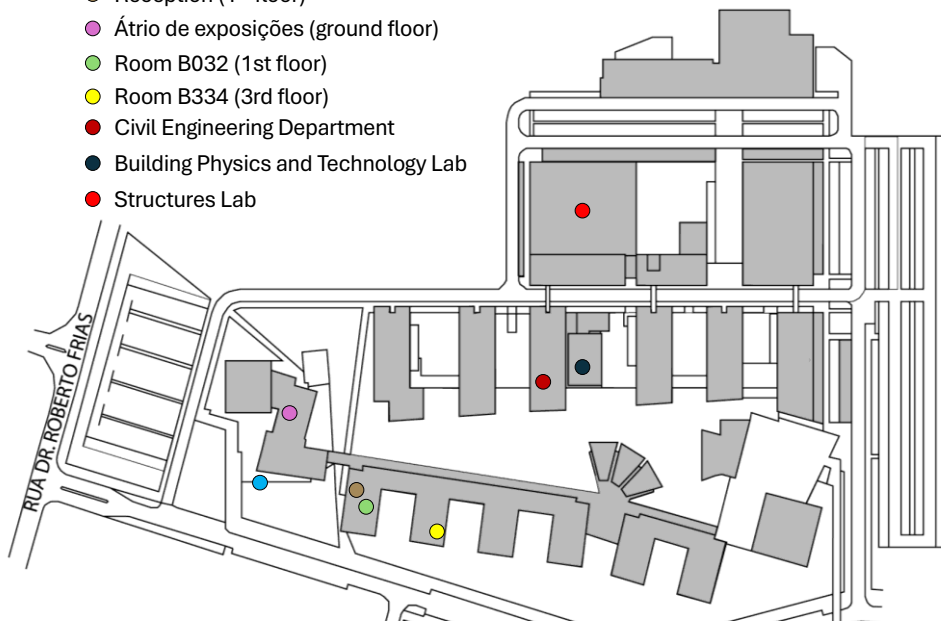
Sakarya University — Turquia  
University of Porto — Portugal  
Mogadishu University — Somália  
SIMAD University — Somália  
Dar es Salaam Institute of Technology — Tanzânia  
Ardhi University — Tanzânia  
Lúrio University — Moçambique  
Eduardo Mondlane University — Mozambique  
Mozambique Engineering Laboratory — Mozambique

Project number: 101179647 – ERASMUS-EDU-2024-CBHE-STRAND-2

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## FEUP PLAN

- FEUP main entrance
- Reception (1<sup>st</sup> floor)
- Átrio de exposições (ground floor)
- Room B032 (1st floor)
- Room B334 (3rd floor)
- Civil Engineering Department
- Building Physics and Technology Lab
- Structures Lab



## **WELCOME DINNER**

Casa da Musica, Monday, May 4th 2026, 19h30

Address: Av. da Boavista, 604-610, 4149-071 Porto



## **MANAGEMENT COMMITTEE DINNER**

éLeBê Centro, Tuesday, May 5th 2026, 19h30

Address: Rua da Conceição, 94, 4050-213 Porto



## **STUDY VISIT**

Description: Guided visit to University of Aveiro and Earth Construction in Aveiro Region

Transport: 08:00 departure from FEUP (by bus)

**All participants must be in FEUP main entrance at 07:50**



## PROGRAMME OVERVIEW

### Monday, May 4th, 2026

Strategic & Scientific Framework	Opening session; institutional welcome; programme presentation; earthen construction from tradition to innovation; African housing challenges; laboratories tour	Lectures Discussions Lab tour
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### Tuesday, May 5th, 2026

Construction Methods & Structural Design	Vernacular earthen construction methods; structural behaviour of earth; design of earthen structures; mix design of earth-based materials	Lecture Lab
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### Wednesday, May 6th, 2026

Soil Testing, Hydrothermal & Digital Fabrication	Empirical & standard soil testing; thermal & hydrothermal behaviour; laboratory thermal testing; 3D printing with soils; mechanical resistance tests	Lecture Lab
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### Thursday, May 7th, 2026

Architecture & Built Applications	Guided visit to earthen construction site; technical discussion on-site; observation of construction systems and detailing	Lecture Study visit
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### Friday, May 8th, 2026

Replication & Capacity Building	Curriculum integration strategies; laboratory replication models; institutional action plans; group presentations; closing & certificates	Workshops
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## DETAILED PROGRAMME

Monday, May 4<sup>th</sup>, 2026

- 08:30–09:00 Check-in & Registration (Reception B032)
- 09:00–10:00 **Opening Session** (Room B032)  
*Rui Calçada*, Dean of FEUP  
*Francisco Taveira Pinto*, Head of Civil Engineering Department  
*Adão da Fonseca*, President of the Regional Assembly of the Northern Region of the Order of Engineers (OERN)  
*Ana Mafalda Matos*, Principal Researcher of PURSUE in UPorto  
*Tuba Tatar*, PURSUE Coordinator
- 10:00–10:30 **Welcome and Programme Presentation** (Room B032)  
*Ana Mafalda Matos*, *Humberto Varum*, *Ana Sofia Guimarães*,  
*Joana Maia*, *Bárbara Rangel*
- 10:30–11:00 Coffee Break & Networking (Átrio de Exposições)
- 11:00–12:30 **Session 1** (Room B032)  
*Chairman: Ana Mafalda Matos*  
  
Earthen Construction from tradition to innovation: techniques and risks,  
*Humberto Varum*
- 12:30–13:45 Lunch Break (Átrio de Exposições)
- 13:45–14:00 **GROUP PHOTOS (FEUP MAIN ENTRANCE)**
- 14:00–15:00 **Session 2** (Civil Engineering Department)  
Laboratories Tour Civil Engineering Department  
*Ana Mafalda Matos*, *Joana Maia*, *Humberto Varum*
- 15:00–16:30 **Session 3 - African housing challenges** (Room B032)  
*Chairman: Ana Mafalda Matos*  
  
Earth Construction in Tanzania, *Alvin Joseph Rujweka and Sara Phoya*  
Earth Construction in Somália, *Amina Ahmed Hassan Nur*  
Earth Construction in Mozambique, *Aurélio Sine and Izak Nindi*
- 16:30 Coffee Break & Networking (Átrio de Exposições)
- 19:30 **Welcome Dinner** (*Casa da Música*)

Tuesday, May 5<sup>th</sup>, 2026

- 09:00–10:30 **Session 4** (Room B032)  
*Chairman: Joana Maia*  
  
Vernacular Earthen Construction Methods Today, *Bárbara Rangel and Md Imtiaz Ahmad*

- 10:30–11:00 Coffee Break & Networking (Átrio de Exposições)
- 11:00–12:30 **Session 5** (Room B032)  
*Chairman: Joana Maia*  
Soil Testing: empirical and standard tests, *Mehmet Emiroğlu*
- 12:30–14:00 Lunch Break (Átrio de Exposições)
- 14:00–15:30 **Session 5** (Room B032)  
*Chairman: Mehmet Emiroğlu*  
Structural behaviour of Earth, *Mehmet Emin Arslan*
- 15:30–16:00 Coffee Break & Networking (Átrio de Exposições)
- 16:00–17:30 **Session 6** (Room B032)  
*Chairman: Mehmet Emiroğlu*  
Design of Earth Construction Structures, *Tuba Tatar*
- 19:30 **Management Committee dinner** (éLeBê Centro)

### Wednesday, May 6th, 2026

- 09:00–10:30 **Session 7** (Room B032)  
*Chairman: Ana Sofia Guimarães*  
Mix Design of Earth-based Materials, *Ana Mafalda Matos*
- 10:30–11:00 Coffee Break & Networking (Átrio de Exposições)
- 11:00–13:00 **Session 8** (Room B032)  
*Chairman: Ana Sofia Guimarães*  
Hygrothermal assessment: Concepts, properties and case studies,  
*Ana Sofia Guimaraes and Joana Maia*
- 13:00–14:00 Lunch Break (Átrio de Exposições)
- 14:00–15:00 **Session 9** (Building Physics and Technology Lab)  
Laboratory Testing Hygrothermal properties  
*Ana Sofia Guimaraes and Joana Maia*
- 15:00–16:00 **Session 10** (Structures Lab)  
3D Printing with Soils – Demonstration  
*Ana Sofia Guimaraes and Joana Maia*
- 16:30–17:00 **Session 11** (Structures Lab)  
Mechanical test on earth based specimens  
*Ana Sofia Guimaraes and Joana Maia*
- 17:00–17:30 Coffee Break & Networking (Átrio de Exposições)

## Thursday, May 7th, 2026

- 09:00–18:30 **Session 12 - Study Visit** (Aveiro Region)  
Guided Visit to the University of Aveiro  
Earthen Construction Site and Technical Discussion On-Site

## Friday, May 8th, 2026

- 09:00-10:30 Curriculum Integration Strategies (Room B334)  
Workshop (group works)
- 10:30-11:00 Coffee Break & Networking (Átrio de Exposições)
- 11:00–12:30 Laboratory Replication Models (Room B334)  
Workshop (group works)
- 12:30–14:00 Lunch Break (Átrio de Exposições)
- 14:00–16:00 Institutional Action Plans (Room B334)  
Workshop (group works)
- 16:30–17:30 Groups presentation and discussion (Room B334)
- 17:30–18:30 Closing and Certificates (Room B334)  
*Ana Mafalda Matos, Humberto Varum, Ana Sofia Guimarães, Joana Maia, Bárbara Rangel*
- 18:30 **Closing cocktail** (Átrio de Exposições)  
Musical Moment by *Joana Maia*