

## Nature-Based Planning for Societal Urban Transitions



21-26 April 2025 @IST Lisbon (Portugal)

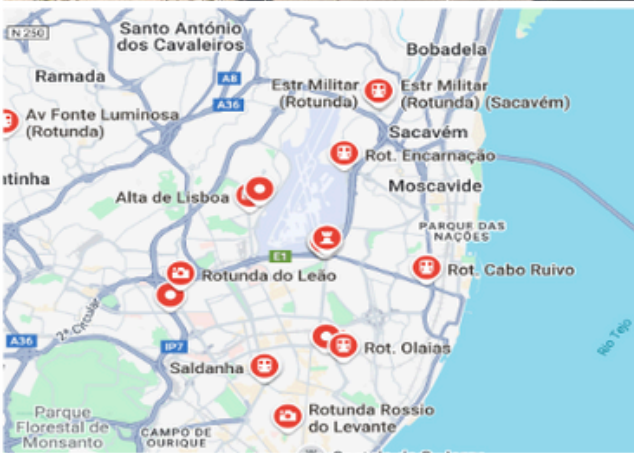
March - May 2025 (Online)

Organization: IST - University of Lisbon, DIST- Polytechnic University of Turin, KTH Royal Institute of Technology and Ghent University — in the context of Erasmus+ EMDM IN:Transition (10112827)

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# INTRODUCTION



The Blended Intensive Programmes (BIP) are innovative short-term initiatives designed to promote teaching excellence by integrating both face-to-face and virtual components. These programmes aim to foster interdisciplinarity and international collaboration within the academic community. This particular BIP focuses on Nature- Based Urban Planning, creating a space for reflection on the urgent need for transformative approaches to urban development that address both present and future societal challenges.

In light of the urban challenges emerging from megatrends such as rapid demographic growth, urbanization, climate change-related hazards, and biodiversity loss, traditional urban planning models— often characterized by a lack of environmental awareness—are failing to address the complex issues associated with the climate and biodiversity crises. Nature-Based Solutions (NBS) have gained significant attention in the policy agenda. By leveraging natural processes, NBS aim to restore, sustain, and introduce ecosystem functions, fostering the provision of essential ecosystem services (ESS).

Nature-Based Urban Planning goes beyond simply adding green spaces; it calls for a holistic redesign of cities that places nature at the core of urban planning. This involves reshaping legal frameworks and planning norms to mainstream biodiversity in the planning process, improving the quality of spatial planning, and adopting new planning rules that help mitigate biodiversity loss.

Additionally, this approach prioritizes the interconnectedness of urban neighborhoods, which is essential for fostering a sense of community and reducing environmental impact.

This BIP represents an opportunity to rethink urban development in light of pressing environmental challenges. By bringing together perspectives from diverse European contexts, the program will explore collaboration among students, researchers, and practitioners for critical reflection on how to evolve Nature-Based Urban Planning principles toward a sustainable urban future. Through a case study in Lisbon, participants will engage in discussions on the practical applications of the Nature-Based Urban Planning concept.



# PROGRAMME OUTLINE

The online component is structured into five 2-hour sessions (10 hours). Four of these sessions will take place in weekly sessions prior to the on-site workshop and one afterwards. Each HEI is responsible for organizing one of the online sessions before. The last session will be held after finishing the workshop to present selected works.

The sessions before will focus on providing insights about the project area and introducing basic concepts, methods and tool needed to bring all the students coming from different backgrounds to the same level.

- (11 March 2025)** ● Introduction to the BIP and to the Nature-Based  
**(13-15 PM CET)** Planning concept  
**(IST/Ulisboa- Online)** ● Introduction the project area – context and main challenges for societal transitions  
● Future thinking and scenario development  
● Q&A

- (18 March 2025)** ● Principles of landscape character assessments in  
**(13-15 PM CET)** urbanised landscapes  
**(UGhent - Online)** ● Examples and approaches of planning, re-inventing or introducing new functions, patterns and users after large- scale activity relocation  
● Q&A

- (25 March 2025)** ● Green and blue infrastructures in urban regeneration  
**(13-15 PM CET)** ● The case studies of Turin metropolitan area, and Dora  
**(POLITO - Online)** Park as demonstrators of the landscape approach in planning and implementing GBIs  
● Urban agriculture in urban regeneration processes. A means for community building  
● Q&A

- (1 April 2025)** ● Multi-level governance of blue-green infrastructure  
**(13-15 PM CET)** ● Urban planning as enabler to address sustainability  
**(KTH - Online)** issues in urban areas  
● Group discussion on literature and own insights  
● Examples of strengthening green infrastructure in urban brownfield development



(21-26 April 2025) • Field work Lisbon: **Envisioning the post-airport urban area.**  
(@IST - LISBON)


May 2025 - TBD • Closing Session  
(13-15 PM CET) • Presentation of selected work by students  
(IST/Ulisboa- Online) • Feedback

# LISBON WEEK OUTLINE


(21 April 2025)  C.01 Main building - 01 on campus map

9:00 Welcome @IST  
9:30 Introduction to field visit led by Lisbon Municipality  
10:00 Site visit by Bus (See page 10)  
Lunch (Canteen - 13 on campus map)  
15:00 Debriefing from the visit: discussion on main challenges  
Forming of international groups around specific challenges - Assigning Tutors for each group


(22 April 2025)  C.01 Main building - 01 on campus map

9:00 Get together @IST - Flash presentations by groups based on miro board  
11:00 Studio - 2 rooms  V1.10 and V1.11 (Civil Building - 02 on campus map)  
Lunch (Canteen - 13 on campus map)  
Aftern Studio

(23 and 24 April 2025)  C.01 Main building - 01 on campus map

9:00 Get together @IST - Flash presentations by groups based on miro board  
10:00 Studio - 2 rooms  V1.10 and V1.11 (Civil Building - 02 on campus map)  
Lunch (Canteen - 13 on campus map)  
Aftern Studio

(25 April 2025)  C.01 Main building - 01 on campus map

9:00 Get together @IST -Flash presentations by groups based on miro board  
Studio - 2 rooms  V1.10 and V1.11 (Civil Building - 02 on campus map)  
13:00 Lunch (Organized by the staff)  
14:30 Cultural event (optional): The “25 of April parade”

(26 April 2025)  V.A3 Main buidling - 01 on campus map

10:00 Final presentations  
12:00 Picnic (Depending on metheorological conditions)



## METHODS AND OUTCOMES

The project site in Lisbon is focusing on the post-airport urban renewal area. The Portuguese government has announced plans to construct a new airport outside Lisbon, meaning that after new facility is fully operational the current Humberto Delgado Airport will be slated for closure.

Given its central location and urban significance, a future new city is expected to emerge in vacant land after the relocation of the current airport.

During the BIP training, students will implement both quantitative and qualitative methods to identify and analyse the problems. They will also implement graphic analysis, using historical and recent cartography. Develop urban development alternative scenarios, they will propose of a prototype/design a strategy for Nature-Based Urban planning for the area.

The implementation of the BIP allows the principles of internationalisation of the University to be put into practice at first hand, encouraging it to have an international and intercultural dimension. The students will work in international groups, benefitting from cross-cultural insights. In a field as complex as urban planning and the sustainable development of cities, a cross-cutting and international approach is essential to provide a better response to current issues and challenges.

The four HEI will work closely with the Municipality of Lisbon, by providing information and insights on the territorial context, notably on the expected role of this area in the strategic development of city of Lisbon. Municipality staff will be invited to participate actively in the sessions. Together (with CIUL) a brochure will be developed with the topic and main outcomes for dissemination.



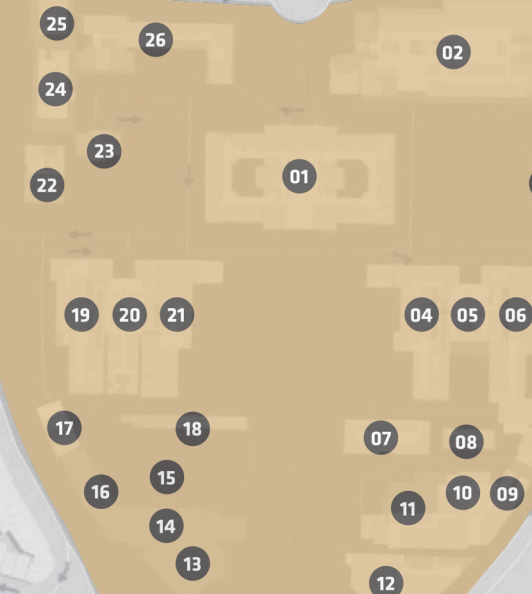
## HOW TO ARRIVE FROM THE AIRPORT





## Campus Plan Alameda

↪ **Saldanha Metro Station / Arco do Cego**  
(Yellow Line / Red Line)



**Avenida Manuel da Maia**

↪ **Alameda Metro Station**  
(Red / GreenLine)

### Classrooms, lecture Halls and support offices



📍 **Google Maps**  
Indoor available at  
**Alameda Campus:**  
[goo.gl/maps/](https://goo.gl/maps/)

**01** Main Building  
C Classrooms (C01, C9, C10, C11, C12, C13 and EN1, GA Lecture Halls (1 to 5). Floor -1: Copy Centre; Ground Floor: Mobility and International Cooperation Unit (NMCI), Graduate Unit Secretariat, DSI (Information Services Division). First Floor: Main Library, Main Hall, Pedagogical Organization Office (GOP), Pedagogical Board, Student Support Office (NAPE), Tutoring Support Office (GATu)

**02** Civil Building  
V Classrooms  
VA Lecture Halls  
Congress Center  
24/24h Study Room

**03** North Garden Building  
Information Techn. Laboratory (LTI/DSI)

**04** Mechanics Building I  
EA5 Lecture Hall

**05** North Tower  
E Classrooms (E1 to E5 and E8); EA1 to EA4 Lecture Halls

**06** Electrical Engineering Building  
E Classrooms (E5 to E7)

**07** Information Technologies Building II

**08** Mechanics Building IV  
Study Room

**09** Information Technologies Building I  
FClassrooms (F1 to F4 and F8); FA1 e FA2; Lecture Halls; Laboratories 1 and 6 to 15

**10** Information Technologies Building III  
FClassrooms (F5 to F8) FA3 Lecture Halls

**11** Mechanics Building II  
AM Lecture Hall  
SDN, MOM and LEMAC class rooms

**12** Mechanics Building III

**13** Canteen

**14** Students Association Building  
AEIST facilities

**15** Playing Fields

**16** Swimming-Pool

**17** Social Action Building  
Health Services  
Técnico Lisboa

**18** Copy Section  
Classrooms I1, I3, I5, I6, I8 a I10

**19** Mining Building  
Classrooms I, I1, I3, I5, I6, I8 and I10

**20** South Tower  
Q Classrooms (Q01, Q4.1, Q4.2, Q4.4 to Q4.07 and Q5.1 to Q5.3) Q Lecture Halls (QA1.1 to QA1.4 and QA02.1 to QA02.4)

**21** Chemistry Building  
QA Lecture Halls (QA 1.1 to 1.4 and 02.1 to 02.4)

**22** South Garden Building

**23** Kindergarten

**24** Mathematics Building / Postgraduate P Classrooms  
PA Lecture Halls

**25** Physics Building

**26** Interdisciplinary Building  
Lecture Hall Abreu Faro

**27** Information Technologies Building II  
Study Room

**28** Mechanics Building II  
Study room SEDEM and LEMAC

**29** Copy Section  
AEIST Study room  
Mining Building  
Room 12.20

**30** South Tower  
Library (ground floor) / Study room (Q5.3) / LTI (5th floor)

**31** Mathematics Building Room 1.05

**32** Physics Building  
Library Room P10

**33** Interdisciplinary Building  
Physics and Mathematics Documental Library Center (ground floor)

CLASSROOM



### Getting to the campus

Metro  
Saldanha Metro Station  
Yellow Line / Red Line  
Alameda Station Green Line / Red Line For more details see

📍 [metro.transporteslisboa.pt](https://metro.transporteslisboa.pt)

Carris  
Av. Rov. Pais/Av. A.J. Almeida  
(lateral entrance): 720, 742, 767  
Alameda: 708 (bike bus), 713, 716, 717, 718, 735, (late night service: 206, 208)  
Saldanha/A.Cego: 727, 736, 738, 744, 783 (late night service: 207)  
Around A.Cego: 720, 726, 742, 767  
For more details see

📍 [carris.transporteslisboa.pt](https://carris.transporteslisboa.pt)



### Where to study

**01** Main Building  
Library (2<sup>nd</sup> floor)

**02** Civil Building  
24-hour space (Ground floor) and LTI (floor). During exam period: Classrooms V0.2, V0.6 to V0.09, V1.06 to V1.09, V1.23 to V1.26  
DEC Library (floor 01)

**03** North Garden Building  
LTI-DSI space, Rooms 5 and 9  
Mechanics Building I

**04** Study room (ground floor)

**05** North Tower  
Study Room (ground floor) / Library (1st floor)  
Information Services Building I / RNL

**09** Classroom F1



### Where to eat

**01** Main Building  
Snack Bar and Cafeteria of the Main Building

**02** Civil Building  
Snack Bar and Cafeteria of the Civil Building

**05** North Tower  
Restaurant/Sena Snack Bar and Cafeteria (floor -1)

**11** Mechanics Building II  
Mechanics Cafeteria

**14** AEIST Building  
Students Cafeteria and Canteen

**18** Copy Section  
Bar da Bola

**20** South Tower  
Chemistry Cafeteria

**24** Mathematics Building  
Canteen (after 13h)

**26** Snack Bar and Cafeteria of the Interdisciplinary Building



### Services and support offices

Students association (AEIST) **14**  
Online guides to help you in early days at IST. List of services and sports, cultural and leisure activities provided.

Tutoring (GATu) **01**  
📍 [tutorado.tecnico.ulisboa.pt](mailto:tutorado.tecnico.ulisboa.pt)  
Responsible for monitoring students' academic outcomes and contribute to improve the quality of education at IST, through Tutoring programs and training actions in soft skills

Information Services Division  
📍 [dsi.tecnico.ulisboa.pt](mailto:dsi.tecnico.ulisboa.pt)  
At DSI, located on the ground floor of the Main Building **01** you can solve any problem with your Fenix System connection or IST email account.

Pedagogical Board (CP) **01**  
📍 [conselhopedagogico.tecnico.ulisboa.pt](mailto:conselhopedagogico.tecnico.ulisboa.pt)  
Any pedagogical problem can be solved here, for example assessment schedule or method.

Mobility and International Cooperation Unit (NMCI)  
📍 [nmci.tecnico.ulisboa.pt](mailto:nmci.tecnico.ulisboa.pt)  
Interested in long or short duration Mobility Programmes such as ERASMUS or ATHENS? NMCI, at the ground floor of the Main Building **01** will help you.

Graduate Unit Secretariat (NG) **01**  
📍 [ng.tecnico.ulisboa.pt](mailto:ng.tecnico.ulisboa.pt)  
The Student Registrar (1st and 2nd cycle) gives you information about your registration/enrolment.

Accommodation Unit (NA)  
📍 [na.tecnico.ulisboa.pt](mailto:na.tecnico.ulisboa.pt)  
This unit is responsible for the Eng<sup>o</sup> Duarte Pacheco Student Residence. You can find the regulations, the prices, and the lists of the available accommodations and many other information On-line.

Health Services Técnico Lisboa **17**  
📍 [sau.tecnico.ulisboa.pt](mailto:sau.tecnico.ulisboa.pt)  
It gives students medical support in the areas of general medicine, dental medicine, psychology, clinical analyses, among other specialties.

Support Student Unit (NAPE) **01**  
📍 [nape.tecnico.ulisboa.pt](mailto:nape.tecnico.ulisboa.pt)  
It promotes the integration of the students at IST through several activities under Mentoring programme, which are organized with the cooperation of students of later years (mentors or guides); it supports students with special educational needs, among other things.







# TEACHING STAFF

Instituto Superior Técnico (IST/Ulisboa):

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Supporting the organization @IST:

Patrícia Nunes ([patricia.nunes@tecnico.ulisboa.pt](mailto:patricia.nunes@tecnico.ulisboa.pt)) - Administrative issues

Tiago Santos ([tiagocsantos220@tecnico.ulisboa.pt](mailto:tiagocsantos220@tecnico.ulisboa.pt)) - Report/programme and **Student Contact Point**

Raquel Barreto ([raquelsofia73barreto@gmail.com](mailto:raquelsofia73barreto@gmail.com)) - Logislitcs

Lina M. Hoyos-Rojas ([lina.maria@tecnico.ulisboa.pt](mailto:lina.maria@tecnico.ulisboa.pt))- Online sessions

With the collaboration of the Municipality of Lisbon.

# EVALUATION

3 ECTS will be attributed on “pass/no pass” criterium.