



## UNDERSTANDING AND PRESERVING BIODIVERSITY IN THE URBAN ENVIRONMENT: A MULTIDISCIPLINARY PROJECT

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### INTRODUCTION

Urban green spaces (UGS) play a pivotal role in enhancing the urban environment and alleviating the adverse effects of urbanization to a certain extent. Their importance is paramount in tackling urban challenges, particularly those concerning environmental and ecological services, as well as social and human health benefits. Moreover, UGS serve as invaluable living classrooms within cities, providing hands-on learning opportunities for individuals of all ages.

In January 2021, a research project was initiated with the overarching goal of fostering awareness within the Lumiar campus community regarding the significance and conservation of the biodiversity present therein.

### OBJECTIVES

General Objective: to raise awareness within the Lumiar campus community for the importance and preservation of the biodiversity present on campus.

Specific Objectives: (i) To observe and identify plant species, as well as the most prevalent vertebrate and invertebrate animals on campus; (ii) To compile an inventory of the identified species; (iii) To communicate and disseminate information regarding campus biodiversity.

This project serves as a unifying force for the entire Lumiar campus community, serving as a multifaceted instrument for education, research, dissemination, and social cohesion.

### METHODOLOGY



**FAUNA and FLORA**  
- Observation, inventory and research  
- Management and graphic processing of information



### RESULTS

#### OUTPUTS:

- Book
- Exhibition: 26 panels
- Epub



Access to Epub  
Version Digital Book



#### SKILLS:

- Develop observation and investigation skills
- Promote autonomy and critical spirit
- Design methodology



### FINAL CONSIDERATIONS

- Urban green spaces serve as powerful tools for environmental education, fostering a deeper understanding of ecological principles and promoting sustainable urban living;
- Higher education institutions play a pivotal role in fulfilling their responsibilities and commitment to ecological priorities, such as biodiversity conservation and habitat protection and restoration.
- Students enhance their understanding of the intricacies within urban ecosystems and their crucial role in fostering environmental sustainability;
- Creative design solutions, such as publications, exhibitions, and promotional materials, contribute to a broader understanding of sustainability.

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