

Queremos Tornar a Lusófona + Verde

O nosso objetivo enquanto Instituição e comunidade
é tornar o nosso campus UM SÍTIO + SUSTENTÁVEL.

*"O maior de todos os erros é não fazer nada só
porque se pode fazer pouco. Faça o que lhe for possível.*

Sydney Smith



LUSÓFONA
Verde

Relatório 2018-2021

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1. Introduction

Over the last few years, Universidade Lusófona and its Faculty of Engineering have organized different activities, on and off campus, with the main objective of raising awareness, alerting and encouraging changes in behavior in relation to the environment.

Among the activities carried out, we highlight Lectures, Workshops, Seminars, Conferences, Technical Tours and awareness-raising activities that aimed to complement the knowledge acquired by the students of the Faculty of Engineering, and to reinforce the connection of Universidade Lusófona to the community in which it operates, namely, through raising awareness and disseminating good practices that contribute to reducing our ecological footprint.

Universidade Lusófona remains committed to informing and training its community of students, professors and students, as well as all external audiences, on issues related to the impact of climate change in the world, encouraging behavior change and informed about the responsibility of each individual. one we have a change of mindset and respect for the planet.

2. Sustainability Events

Number of events related to sustainability (annual average of the last 3 years).

Total: 43 events

Event	Description	Partners	Target	Responsible	Date / Period	Photos
Climate change awareness actions	Actions carried out under the CLIMACT and LIFE INDEX AIR projects, in several schools in the municipality of Loures	Loures City Council	community schools	Joana Lage	2017/2019	
Project in progress	PRIMROSE - Forecasting Risk and Impact of Harmful Events in the Aquaculture Sector (INTERREG EAPA_182 / 2016)			Matthew Mark	2017/2020	
"Coffee Conversations" Sessions	Organization and promotion or be a speaker in scientific dissemination sessions to the local community of Azambuja. Public events in an informal setting on the last Friday of each month.	Azambuja Secondary School; support from the municipality of Azambuja	Local population of Azambuja and surroundings	Anabela Cruces environmental engineering	2018/2019	Access
Project in progress	PiscisMod - Roadmap for environmental sustainability and optimization of energy efficiency in fish farming (MAR2020).			Marcos Mateus (at Instituto Superior Técnico)	2018/2020	
Thematic workshop, within the scope of School Days	Flexibility to innovate. Lezíria-Oeste Training Center Conferences	Azambuja Secondary School	Early childhood education teachers, 1st, 2nd, 3rd cycle and high school teachers	Anabela Cruces environmental engineering	09/11/2018	Access
Open Day - Air Quality	Air Quality Seminar with demonstration of IAQ monitoring equipment	FE / ULHT	high school students	Joana Lage Environmental Engineering	02/19/2019	
open day	Soils and sediments: what is it for?	FE / ULHT	high school students	Anabela Cruces environmental engineering	02/19/2019	
Assessment of air quality in classrooms	Works associated with the development of the UC Environmental Engineering Project (3rd year).	Center for Nuclear Science and Technology (IST)	Students of the UC Environmental Engineering Project	Joana Lage environmental engineering	2nd Semester (2019)	

Drought impacts on agriculture in Cape Verde from 1990 to 2018	Works associated with the development of the UC Environmental Engineering Project (3rd year).	Ministry of Agriculture and Environment of Cape Verde; INMG: National Institute of Meteorology and Geophysics of Cape Verde; INECV: National Institute of Statistics of Cape Verde; GTISA: Intermunicipal Technical Office of Santo Antão; Municipalities of the target islands of the study.	Students of the UC Environmental Engineering Project	Luís Alves environmental engineering	2nd Semester (2019)	
Environmental characterization of Paul de Manque do Intendente	Works associated with the development of the UC Environmental Engineering Project (3rd year).	Municipality of Azambuja - Environment and Urban Services Sub-Unit (SASU of the Infrastructure and Municipal Works Division of the Azambuja City Council - DIOM); Manique do Intendente Parish Union, Vila Nova de São Pedro, Massa; Integrated Basic School of Manique do Intendente; House of the Intendant of the People of Manique; ICNF; 1st Cycle of Biology at the School of Psychology and Life Sciences (ULHT)	Students of the UC Environmental Engineering Project	Anabela Cruces, Elisabete Maurício Environmental Engineering	2nd Semester (2019)	Access
Meeting	II International Meeting of the ESEAG Research and Publications Center	ESEAG		Manuel Loureiro	2019	
Interdisciplinary Knowledge Laboratory	Walking in circles: recurrent forest fires in Portugal	MARE-NOVA, FCT		Santos, IA, Vasconcelos, LT, Silva, SP	October 10, 2019	
Seminar	Montijo Airport: solution or bad decision?			Isabel Abreu dos Santos	November 6, 2019	Access
Adaptation to Climate Change	Realization of Interactive Education and Entertainment Exhibition with the theme Adaptation to Climate Change			Candida Rocha	November 2019	
Risk culture and citizenship	Seminar “The Dimensions of Risk”, Humanitarian Association of Volunteer Firefighters of Agualva-Cacém, Casa da Cultura Lívio de Morais, Agualva-Cacém, December 7, 2019.	Volunteer Firefighters of Agualva-Cacém and Lívio de Morais Culture House		Isabel Abreu dos Santos	December 2019	
Review of an article for publication in a book.	Review of Management Education for a Sustainable World from the book Teaching and Learning Practices that Promote Sustainable Development and Active Citizenship.	IGI Global, eEditorial Discovery		Isabel Abreu dos Santos	2020	
Sustainability and Citizenship	A look at national strategies aimed at converging towards a better society	Synergies Magazine		Isabel Abreu dos Santos, Lia Vasconcelos, Albertina Raposo	2020	

World Wetlands Day	Participation, at the invitation of ICNF, in the activities of the World Wetlands Day, with the promotion of a walking trail in the Lagoas de Santo André e Sancha Nature Reserve with the theme "A story around the Bio and Geodiversity of Lagoa de Santo André . "	ICNF		Anabela Cruces	February 2, 2020	
Communicate the Science	Build a scientific article	MARE-NOVA, FCT		Isabel Abreu dos Santos	June 16, 2020	
sample	Coordination and facilitation of focus groups for Environmental Engineering students; interconnection of two institutions: ULHT, IPBeja.	ULHT, IPBeja		Isabel Abreu dos Santos	July 2020	
Futures of Education	Worldwide consultation by UNESCO: joint action ULHT (Lusophone University of Humanities and Technologies) and IPB (Polytechnic Institute of Beja). Focus Group Environmental Engineering Students, «Let's think about the "Futures of Education"?»	ULHT, IPBeja		Isabel Abreu dos Santos	July 2020	
Education in 2050	A vision co-constructed with Environment students. IV International Congress on Education, Environment and Development.	I Polytechnic Institute of Leiria		Isabel Abreu dos Santos, Anabela Durão, Albertina Raposo	November 11th to 14th, 2020	
siliqua keratonia	Participation in the project Assessment of the bioactive potential of carob products	UNL / FCT		Elisabete Maurício		
	Project in collaboration with FCT / UNL and the company beecaramulo to evaluate the potential of application of national propolis in antimicrobial and sustainable products	Beecaramulus FCT / UNL		Elisabete Maurício		
Valorization and reclassification of Ginja de Óbidos waste into by-products for use in the food and pharmaceutical industry	Project in association with the Municipality of Óbidos, Frutóbidos, Lda food company producing liqueurs and Elisa Câmara, Lda, for submission to the Portuguese Environment Agency, IP of the Ministry of Agriculture, Sea, Environment and Spatial Planning.	Óbidos City Council, Frutóbidos, Elisa Câmara		Elisabete Maurício		
Mobilization of the EU Technical Assistance Mechanism	For a mission to support the Government of Seychelles in the development of a revised and more ambitious 2020 NDC under the Partnership's CAEP, Seychelles	government of Seychelles		Luís Alves		
Development of EDM (Electricity of Mozambique)	Renewable Energy Strategy 2020-2025, Mozambique	Mozambican electricity		Luís Alves		

Preparation of the Program d'appui de l'EU à la Tunisie	Preparation of the EU Support Program for Tunisia and preparation of the ToR for the Technical Assistance that will accompany the programme, Tunisia.	Technical Assistance - Tunisia		Luís Alves		
I Mitigo, and you mitigated today?	Design and production of the digital audiovisual application on the subject of Climate Change "I Mitigo, and today you attenuated?"			Candida Rocha		
Montijo Airport - solution or bad decision?	Organization of the Seminar "Montijo Airport - a solution or a bad decision?"; organization of integrated activities in the "Climate Week"; Organization of film/environmental debate sessions.			Candida Rocha; Anabela Cruces; Isabel Abreu dos Santos		
Cost and Efficiency of Water Distribution Systems in the AMEGA Geographic Area	Organization of the Seminar / Debate on "Cost and Efficiency of Water Distribution Systems in the Geographical Area of AMEGA" which took place at the Palácio dos Marqueses da Praia and Monforte in Loures.			Adelino Silva Soares		
Project in progress	Mobilization of the EU Technical Assistance Facility (TAF) for a mission to support the Government of Seychelles in the development of a revised and more ambitious 2020 NDC under the CAEP Partnership, Seychelles			Luís Alves		
Project in progress	Development of the EDM Renewable Energy Strategy (Electricidade de Moçambique) 2020-2025, Mozambique			Luís Alves		
Project in progress	Préparation du Program d'appui de l'EU à la Tunisie, et de rédaction des TDR de l'Assistance Technique d'accompagnement du program, Tunisia.			Luís Alves		
Other activities	Organization of the Seminar / Debate on the "Cost and Efficiency of Water Distribution Systems in the Geographical Area of AMEGA" held in the Marqueses da Praia and Palácio Monforte in Loures			Adelino Silva Soares		

Event	Description	Number of participants	Place	Organization	Date / Period	Photos
"Coffee Conversations" Sessions	Organization and promotion or being a speaker in training for scientific dissemination to the local community of Azambuja. Public events in an informal setting on the last Friday of each month.	Up to 40 people per session	Local population of Azambuja and surroundings	Anabela Cruces and partnership with a teacher from Escola Secundária de Azambuja. Events supported by the Azambuja City Council	2019	Access

7th Iberian Meeting of Aerosol Science and Technology, RICTA 2019	scientific event	80	Lisbon	Joana Lage Member of the event organizing committee.	July 2019	
Planning and organization of the final event of the Clima project	Scientific and end-of-project event. Event consisting of 2 days: 1st day Seminar 2nd didactic day for students and other schools in the community	180 people (students, teachers from various countries)	Lisbon and Loures	Joana Lage Communication manager and member of the ClimACT project, J.Lage performed the logistical tasks for the conception of the event itself.	May 2019	
European Heritage Days	As part of the European Heritage Days is ours (24th September to 3rd October), the Plastic Arts Seminar/webinar/exhibition was held “Tejo – Cultural Heritage with Meaning - Past and Present Contributions to Economic Sustainability and O Development of the Riverside Territories, on the 2nd of October, where, by invitation, he gave the lecture “Valuing and preserving the natural heritage of the Tagus – past, present, future”, which took place in Alpiarça – Casa dos Patudos Auditorium – Alpiarça Museum .	40		Anabela Cruces Alpiarça City Council Patudos House - Alpiarça Museum AIP Foundation - Portuguese Industrial Association AEBB - Business Association of Beira Baixa José Relvas Foundation Ernesto Lourenço Estrada Foundation, Children Lusófona University – Faculty of Engineering CIEJD - Jacques Dellors European Information Center (Ministry of Business Foreigners) APCOR - Portuguese Cork Association SOFALCA - Sociedade Central de Produtos de Cortiça, Lda. TAGUS-PVC, Lda. (PVC Windows and Doors) Alpiarça Parish Council Envolve Association (Rossio to the South of the Tagus – Abrantes) AIDIA - Independent Association for the Integrated Development of Alpiarça	10/03/2021	Access
REALP Meeting-Network for Environmental Studies of Portuguese-Speaking Countries	Oral communication Local responses to global environmental challenges: Water resource management. XXII REALP Meeting-Network for Environmental Studies of Portuguese-Speaking Countries, Cape Verde, Praia, 29 Nov-2Dec.		Cape Green	REALP Isabel Abreu dos Santos (ULHT)	29 Nov-2 Dec.	
II International Congress Humanism, Human Rights and Citizenship	Oral communication. “Collaborative Constructions for Sustainability: A Critical Reflection”, II		Lusophone University of Humanities	Isabel Abreu dos Santos (ULHT)	October 28-29.	

	International Congress Humanism, Human Rights and Citizenship,		and Technologies (ULHT)			
participatory session of the "Municipal Waste Plan of the City of Lisbon 2020-30	participatory session of the "Municipal Waste Plan for the City of Lisbon 2020-30: Co-building a vision," Session with CML technicians, February 25, 2021.MARE		NOVA University Lisbon..	Isabel Abreu dos Santos (ULHT) Facilitator, participatory session of the "Municipal Waste Plan of the City of Lisbon 2020-30: Co-building a vision,	February 25, 2021	

3. Organizations Related to Sustainability

Number of student organizations related to sustainability.

Internal organization of students - Total: 5	Organization of External Students - Total: 8
Degree in Environmental Engineering Master in Environmental Engineering Degree in Biotechnology Engineering Faculty of Environmental Engineering Degree in Civil Engineering	Azambuja Secondary School Local population of Azambuja and surroundings Municipality of Azambuja Municipality of Azambuja - Environment and Urban Services Sub-Unit Manique do Intendente Parish Union, Vila Nova de São Pedro, Massa; Integrated Basic School of Manique do Intendente House of the Intendant of the People of Manique ICNF Portuguese Society for the Study of Birds Ciência Viva_ Science in the Summer Program

See all photos from the event [here](#). More events and activities at ulofona.pt/en/lusofona-verde

4. Campus Activities

Number of cultural activities on campus.

Total: 60 events / activities

Event	Date / Period	Courses	Photos
Technical Production - Monitoring of water quality in Lagoa de Santo André and monitoring of the artificial opening of the tide bar	03/19/2018	Bachelor's and Master's Degree in Environmental Engineering	Access
Management and monitoring of soil and surface and groundwater water	11/15/2018	Faculty of Environmental Engineering	
CLIMATE Congress 2018	11/22/2018	Bachelor's and Master's Degree in Environmental Engineering	
Butts on the floor? NO! - Environmental awareness activity carried out on the Lusófona University campus, as part of the celebrations of World Soil Day	05/12/2018	Degree in Environmental Engineering	Access
Class - Sampling Methods and Quality of Water and Sediments in Lagoon and Estuarine Environments	05/12/2018	Bachelor's/Master's Degree in Environmental Engineering	Access
Technical Course "News and practical aspects of ISO 50001: 2018 - Energy Management Systems"	01/05/2019	Bachelor's and Master's Degree in Environmental Engineering	
Lecture - The consequences of drought on agricultural activity in Cape Verde	01/17/2019	Bachelor's/Master's Degree in Environmental Engineering	Access
Lecture - From books to action!	01/17/2019	Bachelor's/Master's Degree in Environmental Engineering	Access
Lecture - Natural Hazards, External Geodynamics, Coastal Hazard / Risk	01/24/2019	Bachelor's/Master's Degree in Environmental Engineering	Access

Lecture - Managing Agricultural Ecosystems for Climate Adaptation and Mitigation	01/24/2019	Bachelor's/Master's Degree in Environmental Engineering	Access
Workshop "Urban green spaces adapted to climate change"	01/29/2019	Bachelor's and Master's Degree in Environmental Engineering	
Lecture - Energy Efficiency in Buildings, Audits and Sustainability	01/31/2019	Bachelor's/Master's Degree in Environmental Engineering	Access
Lecture - Main characteristics and behavior(s) of different contaminants in soil	01/31/2019	Bachelor's/Master's Degree in Environmental Engineering	Access
Technical Course "News and practical aspects of ISO 50001: 2018 - Energy Management Systems"	02/14/2019	Bachelor's and Master's Degree in Environmental Engineering	
Lecture - Environmental Engineering and Geology	02/21/2019	Bachelor's/Master's Degree in Environmental Engineering	Access
Lecture - Atmospheric Pollution: how to monitor and control	02/21/2019	Bachelor's/Master's Degree in Environmental Engineering	Access
Lecture - Waste and Society	02/28/2019	Bachelor's/Master's Degree in Environmental Engineering	Access
Lecture - Industrial Waste Management	02/28/2019	Bachelor's/Master's Degree in Environmental Engineering	Access
Seminar - 1st Conference on Environment and Biotechnology	03/15/2019	Graduated in Environmental Engineering / Eng. Biotechnology	Access
Lecture - Environmental Management of Protected Areas, the case of the Santo André and Sancha Lagoons Natural Reserve	03/19/2019	Bachelor's and Master's Degree in Environmental Engineering	Access

Technical Product - Monitoring of water / sediment quality, bio and geodiversity of Paul de Manique do Inendente (Azambuja)	05/10/11 2019	Bachelor's and Master's Degree in Environmental Engineering	
XIV CNEA - ODORS 19- National Congress of Environmental Engineering	05/16/2019	Bachelor's and Master's Degree in Environmental Engineering	
Lecture - Removal of nutrients from wastewater	05/14/2019	Bachelor's and Master's Degree in Environmental Engineering	
Lecture - Removal of As in drinking water with nanocomposite of biological origin	05/16/2019	Bachelor's and Master's Degree in Environmental Engineering	Access
Lecture - Management of Classified Areas in Ecologically Sensitive Areas	05/24/2019	Degree in Environmental Engineering	Access
Technical Product - Visit to the Lousal Mine and the Ciência Viva Center	06/15/2019	Bachelor's/Master's Degree in Environmental Engineering Degree in Civil Engineering	Access
Lecture - Protection of Aquifers against Contamination - Protection Perimeters	01/08/2019	Degree in Environmental Engineering	Access
Lecture - Groundwater all different, all the same? The situation in mainland Portugal and information on the situation in Angola	01/08/2019	Degree in Environmental Engineering	Access
Seminar - Montijo Airport: a solution or a bad decision?	11/06/2019	Degree in Environmental Engineering	
Class - taught by Professor Anabela Cruces, (FE-ULHT) entitled: Sampling Methods and Water Quality in Lagoon and Estuarine Environments (case studies in Portugal).	11/15/2019	Bachelor's and Master's Degree in Environmental Engineering	Access
Lecture - given by Professor Carlos Antunes, (FCUL) entitled: Mean Sea Level Rise and RISK of flooding coastal areas.	11/22/2019	Bachelor's and Master's Degree in Environmental Engineering	Access
Lecture - given by Professor Joana Lage (FE-ULHT) entitled: Atmospheric Pollution: how to monitor and control	11/29/2019	Bachelor's and Master's Degree in	Access

		Environmental Engineering	
Lecture - given by Professor Cândida Rocha (FE - ULHT) entitled: Changing social perceptions - the role of environmental education	12/06/2019	Bachelor's and Master's Degree in Environmental Engineering	Access
Lecture - given by Eng. António Roque (LNEC) entitled: STUDY OF A WASTE DEPOSIT IN THE FORMER SÃO PEDRO DA COVA MINE Methodology, Procedures and Evaluation	12/13/2019	Bachelor's and Master's Degree in Environmental Engineering	Access
Lecture - given by Eng. Daniela Abreu (Valor Sul) with the title: Environmental Awareness - ValorSul Eco-events	12/13/2019	Bachelor's and Master's Degree in Environmental Engineering	
Lecture - by Eng. João Pedro Serrenho (Águas do Tejo Atlântico SA) entitled: "VIRA" mentalities	01/17/2020	Bachelor's and Master's Degree in Environmental Engineering	Access
Class - taught by Professor Anabela Cruces, (FE-ULHT) entitled: Sampling Methods and Sediment Quality in Lagoon and Estuarine Environments (case studies in Portugal).	01/24/2020	Bachelor's and Master's Degree in Environmental Engineering	Access
Lecture - given by Eng. Celeste Jorge (LNEC) entitled: Assessment of areas contaminated with explosives.	02/14/2020	Bachelor's and Master's Degree in Environmental Engineering	Access
Lecture - given by Dr. Vítor Encarnação entitled: Management of environmentally sensitive areas - classified areas.	04/14/2020	Degree in Environmental Engineering	Access
Lecture - Delivered by Dr. João_Carlos_Farinha, entitled: How to value our Conservation Units? Manage with people!	04/21/2020	Degree in Environmental Engineering	Access
Class - Presentation session of the Order of Technical Engineers (for students and professors of FE - ULHT)	05/26/2020	FE - ULHT	
Film Session - Erin Brockovich	04/17/2020	FE - ULHT	Access
Movie Session - An Inconvenient Sequel to Truth to Power	05/09/2020	FE - ULHT	Access
Film Session - Extraordinary Garbage	05/16/2020	FE - ULHT	Access
Virtual visit to the Lousal mine Talk about the impacts of mining activity and how to proceed with the remediation of former sulfide exploration areas	06/09/2020	Bachelor's and Master's Degree in Environmental Engineering	Access

		Degree in Civil Engineering	
Class taught by Dr. Pedro Duarte (Geologist, Technical Director of Águas das Caldas de Penacova and Environmental Consultant in Portugal and Angola) entitled: Underground Water Resources. The importance of its preservation.	10/01/2020	Bachelor's and Master's Degree in Environmental Engineering	Access
Lecture - by Eng. Diana Loureiro (Azambuja City Council) entitled: Environmental challenges in small municipalities	10/01/2020	Bachelor's and Master's Degree in Environmental Engineering	Access
Lecture on "The importance of the natural values of Paul de Manique and the sustainable management of Geo and Biodiversity resources". Framework lecture on Paul de Manique do Intendente, where the natural values of Bio and Geodiversity were highlighted, preparing Visual Arts students for Field in Nature classes.	10/11/2021	Lecture for students of the 1st cycle of Visual Arts - ULHT	
Lecture entitled for students of the 2nd year of the Design course at ECATI – ULHT, within the scope of the event Other Delli Week #4: Unnatural 06-10 Dec.2021 Lecture entitled: "O Bunho do, Paul de Manique – nature and art". Make known the natural values of Paul de Manique do Intendente. Make known the natural values associated with the art of working Bunho. Promote the territory through art that works with regional resources.	12/06/2021	Lecture by invitation at the event "Other Delli Week #4 Unnatural (ECATI – ULHT)	Access
The biological garden started in the 2020/2021 school year, in which 76 m2 of a previously abandoned land was revitalized, was recovered and maintained, with the active participation of CEE students and teachers. This space was joined by another flower bed, where it was possible to plant some plant species, which were planted and maintained with the help of students and teachers of the plant biology and physiology chair. The seeds before planting and plants after being harvested were analyzed by the students in class. With this plantation, it is intended to use the plants within the scope of the disciplines and also to instill awareness of the correct use of biological culture techniques.	March 2021_to date	Faculty of Engineering	Access
Replanting of new species in the small organic garden During the months of March to June, the students of the council and the coordination of Eco-Escolas FE had the opportunity to carry out the replanting of new species in the small biological garden on the campus. The plants chosen were mainly aromatic and some legumes, such as sage, lavender, thyme, green beans and tomato. Students also participated in an awareness-raising activity on the identification and use of aromatic plants in pest control in organic farming	March 2021_to date	Faculty of Engineering	Access
Composting at the University Beginning of the composting process at Universidade Lusófona by the Eco-Schools Team of the Faculty of Engineering of Universidade Lusófona. It was possible to implement a composter next to the vegetable garden, which aims to value the organic waste that is produced in large quantities in the campus canteens and transform them into nutrient-rich compost, suitable for fertilizing the organic vegetable garden.	March 2021_to date	Faculty of Engineering	Access
tree planting On the 7th of June, as a result of the celebration of the Environment week, the students of the eco-schools council had the opportunity to plant 5 trees of the Cercis siliquastrum (Olaia) species on the Lusófona University Campus.	07 June 2021	Faculty of Engineering Environmental engineering	Access

This action aimed to make students aware of the importance of the diversity of native species and the presence of green areas in the university space.			
<p>Geopath and biodiversity on the university campus</p> <p>The Lusófona University Campus has numerous geological materials within the Campus. In order to know the types of geological resources and how they were applied, a survey was carried out within the University Campus where it was possible to trace a path of 1.1 km.</p> <p>This work was developed by students of Civil Engineering and Environment at within the subject of general geology and applied spatial planning.</p>	March 2021_to date	Faculty of Engineering Civil and environmental engineering	
<p>Biodiversity and identification of trees on the university campus</p> <p>The students developed field research work on the biodiversity of existing trees on campus, in order to quantify and identify the main existing species.</p> <p>With the help of the Google Earth Pro tool, the perimeter of the beds and the points where the trees are located were marked.</p> <p>This work was developed by students of Civil Engineering and Environment at within the scope of the subject general and applied geology and spatial planning</p>	March 2021_to date	Faculty of Engineering Civil and environmental engineering	
<p>Biodiversity and identification of birds on the university campus</p> <p>Within the scope of the subject of spatial planning and the Eco-Schools program, a lecture was promoted followed by a visit to identify species and biodiversity on the university campus. The lecture and visit held on April 7th was conducted by ornithologist Vitor Encarnação from the Institute for the Conservation of Nature and Forests</p>	March 2021_to date	Faculty of Engineering Civil and environmental engineering	
<p>MAPeAR Project</p> <p>In the 2021/2022 school year, participation in the MapeAR project continued. In this sense, the equipment provided by ASPEA (Portuguese Association of Environmental Education) remains in the same location to obtain a continuous assessment of the quality of the outdoor air in the area with the most exposure to traffic, on the Lusófona campus.</p> <p>Given the atmospheric changes felt, namely the influence of particles from the Sahara desert in the Lisbon region (and at a national level), data obtained by monitoring equipment were analyzed and analyzed/discussed in the context of the classroom, at the UC Pollution (1st cycle) and UC Air Quality Management (2nd cycle)</p>	20/21 to date	Faculty of Engineering Civil and environmental engineering	Access
<p>Seminar “Contribution of geothermal energy to the thermal performance of buildings”</p> <p>lecture organized by the faculty of engineering, open to the entire academic community under the theme “contribution of geothermal energy to the thermal performance of buildings”</p>	3 November 2021	the whole community	
<p>Replacement of conventional fluorescent lamps with LED lighting</p> <p>In order to reduce energy consumption and become more sustainable, Universidade Lusófona started last year to replace high consumption light bulbs with low consumption LED light bulbs, through the relamping process.</p> <p>This procedure essentially consists of replacing the fluorescent lamps, maintaining the original lamp, with lamps with more durable LED (Light Emitting Diode) technology, thus contributing to an effective reduction of approximately 90% in total energy consumption.</p>	March to July 2021	the whole community	Access

This year we managed to replace the light bulbs in the FE coordination building. This action is intended to apply to all non-efficient light bulbs on campus			
Awareness action on energy saving in Lusófona Awareness-raising action on energy consumption management among college students, where it was possible to demonstrate the operation of the energy consumption measurement equipment and visualize the different consumption profiles of electrical equipment on the FE electrical panel. The students also had the opportunity to watch a small demonstration of consumption with incandescent lamps vs. led lamps.	March to July 2021	the whole community	

See all photos from the event [here](#) . More events and activities at ulofona.pt/en/lusofona-verde

5. Community Sustainability Services

Number of community sustainability service projects organized and/or involving students.

Total activities: 31

More events and activities at
ulusophone.pt/en/lusofona-verde

Action	Description	partners	target	Responsible	Date / Period	Photos
Climate change awareness actions	Actions carried out under the CLIMACT and LIFE INDEX AIR projects, in several schools in the municipality of Loures	Loures City Council	community schools	Joana Lage	2017/2019	
Environmental characterization of Paul de Manique do Intendente	Works associated with the development of the UC Environmental Engineering Project (3rd year).	Municipality of Azambuja - Environment and Urban Services Sub-Unit (SASU of the Infrastructure and Municipal Works Division of the Azambuja City Council - DIOM); Manique do Intendente Parish Union, Vila Nova de São Pedro, Massa; Integrated Basic School of Manique do Intendente; House of the Intendant of the People of Manique; ICNF; 1st Cycle of Biology at the School	Students of the UC Environmental Engineering Project	Anabela Cruces, Elisabete Maurício Environmental Engineering	2nd Semester (2019)	Access

		of Psychology and Life Sciences (ULHT)				
Drought impacts on agriculture in Cape Verde from 1990 to 2018	Works associated with the development of the UC Environmental Engineering Project (3rd year).	Ministry of Agriculture and Environment of Cape Verde; INMG: National Institute of Meteorology and Geophysics of Cape Verde; INECV: National Institute of Statistics of Cape Verde; GTISA: Intermunicipal Technical Office of Santo Antão; Municipalities of the target islands of the study.	Students of the UC Environmental Engineering Project	Luís Alves environmental engineering	2nd Semester (2019)	
Technical Product - Monitoring of water / sediment quality, bio and geodiversity of Paul de Manique do Inendente (Azambuja)		Bachelor's and Master's Degree in Environmental Engineering			05/10/11 2019	
Technical Product - Visit to the Lousal Mine and the Ciência Viva Center		Bachelor's/Master's Degree in Environmental Engineering Degree in Civil Engineering			06/15/2019	Access
weather week	Various initiatives in Climate Week		All	Anabela Cruces Candida Rocha	September 20th to 27th / 2019	Access
Production of ecological posters	Activity in partnership with students of the Visual Arts course to prepare posters to be used in the Climate Week march		courses	Anabela Cruces Agnes Marques	09/23/2019	Access
Social and community development projects;	SCIENCE VIVA IN THE SUMMER PROGRAM / 2019 1. Between the mountains and the plain, geological aspects in the municipality of Azambuja; 2. Bio and Geodiversity of Paúl de Manique do Intendente; 3.The importance of SER Rio Tejo (Azambuja - Cartaxo). and accompanies an action proposed by the Knowledge Pavilion - Ciência Viva in partnership with the Portuguese Society	Lousal Science Center Pavilion of the Portuguese Knowledge Society for the Study of Birds Municipality of Azambuja			September 2019	

	for the Study of Birds - “Lagoa de Albufeira - a 5,000-year-old girl”					
Creation of technological platforms, business clubs or other structures that provide cooperation with society	Increase in Mean Sea Level and RISK of Flooding of Coastal Areas	FCUL		Professor Doctor Carlos Antunes	11/22/2019	
	Atmospheric pollution: monitoring and control	FE-ULHT		teacher Dr. Joana Lage	11/29/2019	
	Changing social perceptions - the role of environmental education	FE-ULHT		Prof. Doctor Candida Rocha	12/06/2019	
	STUDY OF A WASTE DEPOSIT IN THE HEAP OF THE FORMER SÃO PEDRO DA COVA MINE Methodology, Procedures and Evaluation	FE-ULHT and LNEC		Eng. Antonio Roque	12/13/2019	
	Environmental Awareness - Valor Sul Eco-events	Southern Value		Engineer Daniela Abreu	12/06/2019	
	Underground Water Resources, the importance of their preservation			Dr. Pedro Duarte	10/01/2020	
	Environmental challenges in small municipalities	Municipality of Azambuja		Engineer Diana Loureiro	10/01/2020	
	"Transform" mentalities, wastewater treatment and use	Aguas do Tejo Atlântico SA		Engineer João Pedro Serrenho	01/17/2020	
	Management of Ecologically Sensitive Areas Classified Areas	ICNF		Dr. Vitor Encarnação	04/14/2020	
	How to value our Protected Areas? Manage with people!	ICNF		Dr. João Carlos Farinha	04/21/2020	
Social and community development projects;	Accredited training actions (Continuous Teacher Training)				February to June 2020	
field classes	Field classes with 7th and 8th grade classes from the Azambuja School, to assess the environmental status of the streams next to the school.	Azambuja School Group	7th and 8th grade students	Anabela Cruces	02/13/2020 02/17/2020	Access

Works associated with the development of the UC Environmental Engineering Project (3rd year).	“Identification, environmental characterization and conductivity of the Tagus River, in the sector between Valada do Ribatejo (Cartaxo) and Vila Nova Da Rainha (Azambuja)”.	Partnership with EPAL - Valada do Ribatejo Collection Station	Students of the UC Environmental Engineering Project	Anabela Cruces	2nd Semester	
Social and community development projects;	“Evaluation and reclassification of Ginja de Óbidos waste into by-products for use in the food and pharmaceutical industry.	Óbidos City Council, Frutóbidos				
voluntary action	Voluntary action to remove agricultural plastics from the Manique do Intendente marsh	FE-ULHT; DREAMS-ULHT; Municipality of Azambuja; Parish Union of Manique do Intendente, Vila Nova de São Pedro and Maçussa; Alto de Azambuja School Group; People's House in Manique do Intendente; loving the planet		Anabela Cruces (Organization) Cristina Guerra, Adília Charmier, Cândida Rocha Students		Access
Participation in the summer activities of the Ciência Viva Program	<p>5 actions proposed by the Faculty of Engineering of ULHT, entitled:</p> <ol style="list-style-type: none"> 1. From the pre-Tejo to the current Tagus: the evolution in the last thousands of years. 2. River environments: dynamics, threats to water/sediment quality, quality indicators that define their use for bathing purposes. 3. Bio and Geodiversity in Paul de Manique do Intendente (Azambuja). 4. The importance of SER Rio Tejo (Azambuja - Cartaxo). 5. Valuation of plants in Paul de Manique by the intendant for natural cosmetics. <p>Knowledge Pavilion - Ciência Viva in partnership with the Portuguese Society for the Study of Birds, entitled:</p> <ol style="list-style-type: none"> 1. Lagoa de Albufeira – a young woman with 5,000 years. 	Ciência Viva – Science in the Summer Program, FE – ULHT, Municipality of Azambuja, SPEA	20 participants per activity 120 total	Anabela Cruces	Between 1st and 15th of September 2021	
Ecology day celebrations	<p>Ecology day celebrations</p> <p>To mark World Ecology Day, on the 14th of September, we went to discover Paul de Manique do Intendente, to understand the importance of wetlands</p>	Municipality of Azambuja; Anabela Cruces (Geologist, University Professor – Faculty of Engineering, Universidade Lusófona, ULHT); Susana Dias (Biologist, University Professor	All students/teachers from the school grouping in the municipality of Azambuja.	Anabela Cruces	09/14/2021	

	in the current context of climate change, revealing their natural values.	– Center for Applied Ecology “Prof. Baeta Neves, Higher Institute of Agronomy, University of Lisbon – CEABN/ISA, UL); Vitor Encarnação (Geographer, Ornithologist – CEMPA/ICNF).	General public. (180)			
European Researchers' Night (NEI/2021)	<p>As part of the partnership established between the Faculty of Engineering (ULHT) and the Knowledge Pavilion, several faculty members will be present at the EUROPEAN RESEARCH NIGHT, on September 24, 2021, at the Knowledge Pavilion (Parque das Nações), in representation of FE - Universidade Lusófona.</p> <p>Our professors promoted demonstration actions on their areas of investigation, in very varied topics:</p> <ul style="list-style-type: none"> - Soils and sediments, is this the same after all? Can they naturally constitute problems of environmental contamination? - Use of bioindicators in the detection of toxicity in ecosystems - Microbiological and physical-chemical indicators of surface waters for pollution alert - Do you know the air you breathe? - Smart factories - Development of polymeric membranes for water filtration <p>More information at: https://nei.cienciaviva.pt/2021/</p>	Faculty of Engineering - ULHT	200	Professors Anabela Cruces, Cristina Guerra, Elisabete Maurício, Adília Charmier, Joana Lage, Pedro Carmona, Pedro Sampaio	09/24/2021	
Short Term Action – Continuing Teacher Training	<p>Short Duration Action – Continuing Teacher Training (6h) Hours: 10am to 1pm and 2pm to 5pm Format: In-person training action</p> <p>With the aim of promoting environmental education, knowing to value the territory and providing didactic tools for teachers to carry out field trips, the LPN Training Center invited two teachers (Anabela Cruces from FE-ULHT</p>	Nature Protection League - LPN) (coordination) FE - ULHT FCUL	12	Anabela Cruces	10/23/2021	Access Disclosure News from LPN

	and Conceição Freitas from FCUL) to this field trip training action in Lagoa de Albufeira with a route passing through various points of didactic interest and scientific tourism.					
Technical Output of the Soil Sciences and Environmental Analytical Control Units - FE - ULHT	<p>Within the scope of the Soil Science CUs (2nd year) and Environmental Analytical Control (3rd year) of the Degree in Environmental Engineering, a technical output is carried out in different locations to allow the observation of different soil profiles (indigenous soils). situ) and sediments. In these places, the collection of various unconsolidated materials (soil/sediment) and water is carried out, as well as the in situ evaluation of the physical-chemical characterization of the different bodies of water sampled.</p> <p>During this day, students have the opportunity to get in touch with different soil profiles, in continental (Azambuja, Vialonga) and transition environments (Tejo estuary – Seixal Bay) as well as observe different types of sedimentary environments.</p> <p>The materials collected are intended for practical laboratory classes in the aforementioned disciplines, where students carry out various analyzes throughout the semester, which allows them to complement the sampling experience with the laboratory analytical component required in the practical components of the disciplines.</p>	FE-ULHT	20	Anabela Cruces Hilda Pablo	10/27/2021	Access
Invited lecture for Master's students in Geological Engineering, Department of Earth Sciences (DCT), FACULTY OF SCIENCE AND	<p>SEDIMENTS SAMPLING AND GEOCHEMISTRY</p> <p>Address the issue of sediments, classifications, textural and compositional characteristics. Sampling plans, sampling techniques, sedimentological and geochemical</p>	Department of Earth Sciences (DCT), SCHOOL OF SCIENCE AND TECHNOLOGY FCT NOVA FE-ULHT	15	Anabela Cruces	11/11/2021	

TECHNOLOGY FCT NOVA	characterization. Natural geochemical signature and contamination.					
Field class invited by LPN with students from Escola Secundária de Azambuja	<p>Field trip within the scope of the Awakening to Nature project (with support from the LPN) organized by the Biology - Geology disciplinary group of the Azambuja Secondary School. The students went to meet the Geo and Biodiversity of Paul de Manique do Intendente. They visited the salt pans of Rio Maior and we visited magmatic remains of Portela da Teira.</p> <p>Bringing secondary school students closer to the values of Geo and Biodiversity in the territory close to the school.</p> <p>Make known the natural values of Paul de Manique</p> <p>Understand the origin of Sal das Salinas de Rio Maior and understand the artisanal production process of this geological resource.</p> <p>Recognize and observe traces of mgmatic activity existing in Serra dos Candeeiros, in Portela da Teira.</p>	League for the Protection of Nature (LPN) Azambuja School Group FE - ULHT	45	Anabela Cruces	11/15/2021	Access LPN news
Live Science Club Project – Alto de Azambuja School Group	<p>Elaboration of the Project 2021/22 – 2024/25 for Clube de Ciência Viva of the Agrupamento de Escolas do Alto de Azambuja</p> <p>Create a Live Science Club in the Alto de Azambuja School Group.</p> <p>Promote experimental teaching in the area of science.</p> <p>Motivate and train teachers to streamline practical activities.</p>	Alto de Azambuja School Group FE - ULHT	All students, faculty and staff in the school cluster	Anabela Cruces	12/30/2021	

6. Training Actions and Workshops

Total: 11

Action		Description	Target	partners	No. Participants	Date / Period	Photos
Professor Rocha/ Training	Candida	Training: Climate Action in Municipal Policies	Training for technicians in the Municipality of Loulé	ULHT APEMET Municipality of Loulé	25	04/18/2021	Access
Professor Rocha/ Training	Candida	Training: Awareness of Climate Change	Training for technicians in the Municipality of Loulé	ULHT APEMET Municipality of Loulé	25	04/19/2021	Access
Professor Rocha/ Training	Candida	Training: Awareness of Water Savings	Training for technicians in the Municipality of Loulé	ULHT APEMET Municipality of Loulé	25	04/20/2021	Access
Professor Rocha/ Training	Candida	Training: Awareness of Energy Savings	Training for technicians in the Municipality of Loulé	ULHT APEMET Municipality of Loulé	25	04/21/2021	Access
Professor Rocha/ Training	Candida	Organizer and trainer of Training on Climate Change for journalists and media, September 2021, Príncipe island. (20 hours)	Train journalists and the media on the island of Príncipe on the issue of climate change	ULHT UNDP TVS National Radio local radios	16	7th March 11, 2022	Access
Professor Rocha/ Training	Candida	Organizer and trainer of Training on Climate Change for journalists and media, September 2021, São Tomé Island. (30 hours)	Train journalists and the media on the island of Príncipe on the issue of climate change	ULHT UNDP TVS National Radio local radios	26	September 13th to 24th, 2021	Photo 1 Photo 2
Professor Rocha/ Open Class for TVS	Candida	Open class broadcast on São Tomé and Príncipe TVS on "Climate Changes in STP"	Public awareness of climate change	ULHT UNDP Évora University	--	11/12/2021	Access
Professor Rocha/ STEAM Workshops	Candida	São Tomé and Príncipe - 10 STEAM workshops on climate change STEAM (science, technology, engineering, arts and mathematics) workshops at the University of São Tomé and Príncipe and at the secondary school on Ilha do Príncipe. Workshop themes: "Decarbonization is not a bad word, it is a form of action!" and "Biodiversity is REALLY a necessity".	Training of teachers and students of higher and secondary education	ULHT UNDP	More than 200 participants	From January 2021 to June 2022	Access

Professor Rocha/ Technical Seminars	Candida	4 Technical Seminars: “Causes, consequences and solutions of climate change” in São Tomé and Príncipe	Training of teachers and government technicians for climate change	ULHT UNDP	More than 200 participants	From January 2021 to June 2022	Access
Professor Rocha/ Environmental Cinema	Candida	10 Environmental Cinema sessions with reflection and debate in São Tomé and Príncipe	Public awareness of climate change	ULHT UNDP	More than 500 participants	From January 2021 to June 2022	Video 1 Video 2 Video 3
Professor Rocha/ edutainment	Candida	15 interactive shows about climate change	Sensitization of the younger population to climate change	ULHT UNDP	1000	From January 2021 to June 2022	Video

7. Participation in International Projects

Total: 09

Project		Description	Target	partners	No. Participants	Date / Period	Photos
Professor Rocha/ Participation in international projects	Candida	2019-2021. Participation as an expert on climate change in the project “Reducing Climate Vulnerability in São Tomé and Príncipe”, funded by the European Union (EuropeAid/138507/DH/SER/ST)	Reducing climate vulnerability in São Tomé and Príncipe	European Union General Directorate for the Environment of São Tomé and Príncipe	---	From 2019 to 2021	
Professor Rocha/ Participation in international projects	Candida	2021-2022. Coordinator of the project “Climate Promise – to raise awareness amongst the whole of society about the country's climate plan and engage stakeholders in its revision process”, funded by the United Nations (UNDP) (RFP15/2020).	Sensitize the population of São Tomé and Príncipe to Climate Change	United Nations General Directorate for the Environment of São Tomé and Príncipe	----	January 2021 to June 2022	Access
Professor Rocha/	Candida	International Course: "IMAT NU E-Course: Circular Economy and Zero Emission Systems: Financing Strategies	Convey knowledge, to students from	ULHT IMAT	150		Photo 1 Photo 2

International Course Class	for Resilient Societies". ULHT class entitled "CE in sustainable resource management BIO-WASTE" on the topic "CE in sustainable resource management: from municipal solid waste management to integrated soil and energy protection and support systems.	around 20 countries, about urban solid waste management in Portugal and its interaction with climate change				
(TEACHER TRAINING WORKSHOPS) VI International Congress of Ed. Environment of Portuguese-Speaking Countries and Communities Cape Verde (São Vicente-Santo Antão)	<p>/11/2021 - Mini-course: Training of teachers in Environmental Education/Geoscience</p> <p>11/4/2021 - Field activity: North of Baía and Praia Grande or Monte Verde</p> <p>2021/22 - Follow up on the final proposal of each group during the school year.</p>	Train educational agents based on active methodologies, to explore the environmental education component in educational action with an impact on the formation of critical awareness, on the development and training of young people, with a view to behavioral changes for an environmentally sustainable future	University of Cape Verde, ASPEA	11/3/2021: 21 participants 11/4/2021: 125	2-5/11/2021	
Hilda de Pablo Participation in R&D Projects	CleanAtlantic - Tackling marine litter in the Atlantic Area. European Commission (Brussels). WP6 Participation and Leader - Modeling				2017-11 to 2023-07	Website
Hilda de Pablo Participation in R&D Projects	RIVERSEA - Terrestrial sources of marine litter and microplastics. Participation in the modeling WP	Assessment and modeling of transport by rivers and estuaries and implementation of prevention and source			2018-10 to 2021-10	

		reduction strategies. Foundation for Science and Technology (Lisbon) Website: https://riversea.pt				
Hilda de Pablo Consulting and Data Analyst	AdTA (Águas do Tejo Atlântico of the Águas de Portugal Group) - Environmental monitoring of the Guia submarine outfall. Monitoring Coordination and execution of the Monitoring Plan. ARM (Water and Waste from Madeira) – Analysis of the impact of the rejection of effluents resulting from the treatment of urban wastewater in the marine environment on the island of Madeira.	Consultant and data analyst.			topicality	
Pedro Matias FILMEU project, Report Best Practices – Governance Models. June 2021.	FILMEU, Report Best Practices – Governance Models. June 2021.				June 2021	Access
Collaboration Eco-Escolas FE and Real Colégio de Portugal	In the event as part of an Erasmus + project "Many Cultures, 1 Planet", which focuses its activities on the United Nations Sustainable Development Goals (SDGs) and seeks to promote Sustainability in Schools, the Eco-Escolas FE coordination was invited, by the Real Colégio de Portugal, to share with a group of students from Girona (ESP) and Pavia (ITA) the implementation of the Eco-Schools program at the Faculty of Engineering.				September 2021	

8. In the media

Total: 04

Average	Date / Period		Photos
Opinion article in Jornal SOL: “Worms at home to reduce the impacts of climate change?”	11/10/2021	Candida Rocha	Access
Interview on the program Diálogo à Tarde on TVS, São Tomé and Príncipe television Public awareness of climate change	09/21/2021	Candida Rocha	Access
Contents for website Production of technical-scientific content for the website of the CNMC – National Committee for Climate Change. Conception of more than 90 news. Public awareness of climate change	From January 2021 to June 2022	Candida Rocha	Website
Content production for social networks: Public awareness of climate change	From January 2021 to June 2022	Candida Rocha	Promessa Climatica Facebook in São Tomé and Príncipe Climate Promise YouTube in São Tomé and Príncipe Instagram of Promessa Climatica in São Tomé and Príncipe YouTube of the CNMC – National Committee for Climate Change

More events and activities at
ulusofone.pt/en/lusofona-verde