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1. INTRODUCTION

Sustainability is an important factor in art and design education. In line with the UN Agenda 2030, several artists and designers have embraced the idea of art and design for sustainability in different ways to reflect the protection of natural landscapes, the consequences of industrialization and the growth of cities, and the use of resources. However, these topics are still rarely taught to students in higher education.

The Short Learning Program on *Art, Design and Sustainability* is developed in the scope of the Erasmus+ project ARDES - Short Learning program of "Art & Design & Sustainability with a special focus on environment and climate change", by the contribution of all project's partners (MyDocumenta (Coordinator, Spain), European University Cyprus, Universidade Aberta (Portugal), EINA (Spain) and the associated partner LABA Valencia (Spain)).

The Short-Learning Program (SLP) *Art, Design and Sustainability* is developed as a 2 microcredential, designed to provide specific knowledge and skills in a short period of time, and with the following characteristics:

- it is aimed to provide practical and applicable knowledge on sustainability and climate change, as well as the link with art and design.
- the outcomes help students to reflect on how future artistic values, artwork productions and art activities will help to increase the citizens' commitment towards sustainability and climate change mitigation.

The SLP *Art, Design, and Sustainability* consists of 3 modules of 2 ECTS each (2 compulsory modules and 1 final optional module). The contents, competences and outcomes are further described in the following sections of the guide.

2. OBJECTIVES

The aim of the SLP *Art, Design, and Sustainability* is to provide students with knowledge, values, and skills associated with sustainability and climate change through art activities, design techniques, and digital solutions. The main objectives are:

- to understand the concepts of sustainability, the link with art and design, and sustainability assessment methods in art and design context,
- to understand how to use art and design as strategic tools for utilization of visual communication, thus helping students to compile design projects concerning sustainability and CC.

3. COMPETENCES

The SLP *Art, Design, and Sustainability* is developed in a way that the student is able to obtain all competences proposed by the European sustainability competence framework (GreenComp)(Bianchi et al. 2022)¹, which establishes the knowledge, skills and attitudes and values that students of all ages will need for the green transition.

GreenComp comprises four interrelated competence areas: 'embodying sustainability values', 'embracing complexity in sustainability', 'envisioning sustainable futures' and 'acting for sustainability'. Each area comprises three competences that are interlinked and equally important. The 12 competences taken together make up the building blocks of the general sustainability competence in this SLP.

General competences based on GreenComp:

- Embodying sustainability values: Valuing sustainability; Supporting fairness;
 Promoting nature.
- 2. Embracing complexity in sustainability: Systems thinking; Critical thinking; Problem framing.
- 3. Envisioning sustainable futures: Futures literacy; Adaptability; Exploratory thinking.
- 4. Acting for Sustainability: Political agency; Collective action; Individual initiative.

Specific competences:

- 1. Ability to get involved in sustainability actions and realize the best solutions to make sustainable changes.
- Ability to use strategies developed by pioneer eco-artists to produce new ecoartworks.
- 3. Ability to critically analyze the environmental impact of personal behaviour/activities or products and artworks.
- 4. Ability to collectively design and implement interventions, transitions, and transformative governance strategies toward sustainability by applying Transition design and Resilience Thinking design.
- 5. Ability to create sustainable and environmentally friendly artistic projects, as well as to create designs, artworks, and sculptures that are made of eco-friendly materials.

¹ Bianchi, G., Pisiotis, U., Cabre-ra Giraldez, M.(2022). GreenComp – The European sustaina-bility competence framework. Bacigalupo, M., Punie, Y. (editors), EUR 30955 EN, Publications Office of the European Union, Luxembourg; ISBN 978-92-76-46485-3,doi:10.2760/13286, JRC128040.

Communicate effectively for sustainability and climate change through art and design.

4. TARGET GROUP AND ACCESS CONDITIONS

The SLP *Art, Design, and Sustainability* is designed for all of those who are interested in learning about the topic of *Art, Design, and Sustainability*. The target group of this course is higher education students in art & design, although higher education students from other scientific areas will also be accepted for registration.

This SLP is offered free of charge, in the present course edition, to those registered, in order of registration, up to 30 trainees.

5. PARTICIPATION PREREQUISITES

Candidates to the SLP Art, Design, and Sustainability should have the following prerequisites:

- have access to a computer with an Internet connection,
- have basic ICT skills, from the user's perspective,
- · be able to read and understand written English,
- have about 10-15 hours per week for self-study of the learning materials, for participation in discussion forums and assessment activities.

6. TEACHING METHODOLOGY

The modules composing the SLP *Art, Design, and Sustainability* will be developed according to the learning pedagogical model of Universidade Aberta. All the learning resources and activities related to this course are made available in the virtual classroom environment, (PlataformAbERTA). Emphasis is given on asynchronous communication, with relevance to the debate *Forum*, although some scheduled synchronous sessions will also be held online.

Each module is structured into Lessons, and each Lesson comprises:

- Summary Brief text about what the students will learn during the lesson.
- Study Guideline Orientation for the readings and activities in the online platform relating to each topic.
- Learning resources Materials that allow students to acquire a deep understanding of the content, including:

- Videos and slides including quiz questions.
- Readings bibliographical material supporting learning (and further reading, not mandatory).
- Food for thought a complementary open question, that serves as feed for thought and is supported by only one bibliographical reference (not mandatory).
- Activities Learning and Assessment activities will be developed (individually or in group) aiming to the acquisition of competences in the relationship between art, design, and sustainability. Some learning activities will serve simultaneously as assessment activities (see Assessment).
- Forum In each Lesson, an asynchronous Forum will be active throughout the
 module duration, moderated by the teacher. The Forum will be used for the
 development of the learning and assessment activities, and to clarify doubts by the
 teachers, thus providing the possibility of permanent interaction among students
 and between students and the teacher.
- Workshop Some scheduled synchronous sessions (workshops) will also be held online (see Study Plan).

It is expected that each student will be involved in study activities for 13 hours per week. Each student will be advised to prepare a weekly schedule of his/her work, which takes into account the readings, access to the platform, downloading files, eventual research, the development of individual reflections, and participation in group activities or in general discussions.

7. STRUCTURE AND STUDY PLAN

The SLP *Art, Design, and Sustainability* is structured in three modules (2 obligatory, and 1 optional), each with a set of lessons, covering sustainability and climate change topics related to art and design.

Each of the obligatory modules - M1 and M2 - consists of 2 ECTS (52 hours). The full SLP (4 ECTS) has a duration of two months. M3 (optional) will be face-to-face in Valencia, Spain, and will have a duration of up to a week. The SLP calendar is as follows:

Module 1 | Sustainability & Climate change: historical perspective and their relationship with Arts: 20th November – 17th December

Module 2 | How art can contribute to facilitate dialogue, communicate sustainability and climate change: 2th January – 28th January

Module 3 | Digital tools for the interactive engagement of audiences with Art and Design: *to be announced.*

The study plan (table 1) presents the work guidelines, as well as the forecast of the temporal distribution of each lesson, so that you can plan, organize and develop your study. This information will be complemented by guidelines published regularly in the Virtual Classroom.

Table 1 - Study Plan

Module 1					
Sustainability & Climate change: historical perspective and their relationship with Arts					
Lesson	Content	Week	What is expected		
Lesson 1 Sustainability and SDGs: Historical background and concepts	Sustainability concepts and Circular EconomySustainable Development Goals (SDGs)	Week 1 & 2	Reading and analysis the text, videos, and other materials and reflection on the forum		
			Participate in individual and group activity on "Connecting your daily life with Sustainability and SDGs".		
Lesson 2 Sustainability and art	 Historical context of the relationship between art and sustainability Artivism's digital formats 	Week 3	Reading and analysis the text, videos, and other materials and reflection on the forums		
			Participate in the 2 hours Synchronous Session (Workshop)		
			Participate in individual activity to develop a short Essay about "early artivism movements" and a group activity on "creating a digital artivist project"		
Lesson 3 Sustainability Assessment Tools	Sustainability Assessment and Ecological FootprintLife Cycle Assessment	Week 4	Reading and analysis of the text, videos, and other materials and reflection on the forums.		
			Participate in a group activity on an individual and group activity on "calculating Personal Ecological Footprint"		

Lesson	Content	Week	What is expected
Lesson 1 Art for communicating Sustainability and Climate Change (CC)	 Communicating Sustainability and CC through arts and design Sustainability and CC through the visual communication and animation industry 	Week 5 & 6	Reading and analysis of the text, videos, and other materials and group reflection on the forum
			Develop an individual Corporate Design project
			Participate in the 2 hour Synchronous Session (Workshop), with a follow- up 1 hour session to present individual results to the whole group
			Participate in group activities building a transmedia narrative.
Lesson 2 Art practice and design projects for communicating sustainability through transformative social, cultural and environmental action	 Communicating sustainability through sustainable practices, media and materials 	Week 7 & 8	Participate in group activities dedicated to ranking techniques, media and materials.
	 New materialism and ecocentrism: approaches to an integrative Nature The medium is the sustainable message 		Develop an artwork or communication piece/ campaign and rank it in sustainability terms, according to the previous activity.

Module 3

Digital tools for the interactive engagement of audiences with Art and Design (optional)

For those students who will be capable to produce artwork design and bring it to life through their extracurricular civic activism, voluntary work to engage audiences, a digital exhibition of their artworks and online eportfolios will be organized. This extracurricular exhibition constitutes the distinction level of the online assessment of the PBL and will deliver the equivalent to 2 ECTS credits. During the project pilot, this will be organize, face-to-face, at LABA Valencia

8. REFERENCES

MODULE 1

<u>Elgaaied-Gambier, L., & Mandler, T. (2021)</u>. Me trying to talk about sustainability: Exploring the psychological and social implications of environmental threats through user-generated content. Ecological Economics, Elsvier, 187(107089).

Galli, A., Patrizi, N., Bacelar-Nicolau, P., Caeiro, S., Malandrakis, G., Moreno Pires, S., Niccolucci, V., Nicolau, M., Papadopoulou, A., Mapar, M., Pulselli, F.M., Theodosiou, N., Zachos, D. (2020). EUSTEPs Students' teaching module. Unit 4: "Ecological Footprint Introduction" (Slide presentation).

Goris, Y. (2017). Activism, Artivism and Beyond: Inspiring initiatives of civic power. The Spindle, Partos.

McManus, M. C., & Taylor, C. M. (2015). The changing nature of life cycle assessment. Biomass and Bioenergy, 82, 13–26.

Moreno Pires, S., Theodosiou, N., Bacelar-Nicolau, P., Caeiro, S., Galli, A., Malandrakis, G., Niccolucci, V., Nicolau, M., Papadopoulou, A., Mapar, M., Patrizi, N., Pulselli, F.M., Zachos, D. (2022). EUSTEPs MOOC: Sustainability and Ecological Footprint: from theory to practice. Topic 1/Part 2- Sustainability Concepts (Slides).

Moreno Pires, S., Theodosiou, N., Bacelar-Nicolau, P., Caeiro, S., Galli, A., Malandrakis, G., Niccolucci, V., Nicolau, M., Papadopoulou, A., Mapar, M., Patrizi, N., Pulselli, F.M., Zachos, D. (2022). EUSTEPs MOOC: Sustainability and Ecological Footprint: from theory to practice. Topic 1/Part 3- Sustainable Development Goals (SDGs)- Action towards 2030 (Slides).

Nessa, B., Urbel-Piirsalua, E., Anderbergd, S., Olssona, L. (2007). Categorising tools for sustainability assessment. Ecological Indicators, 60, 498 – 508.

<u>Salzbrunn, Monika (2021)</u>. Researching Artivism through the Event Approach: Epistemological and Methodological Reflections about Art and Activism. L'artivismo: forme, esperienze, pratiche e teorie, 2.

United Nations Development Programme. UNDP SDGs booklet. pp 24.

<u>Vico, A.; Jivkova-Semova, D. & Bailey, O. (2018)</u>. Artivism: A new educative language for transformative social action. In Comunicar: Revista Científica Iberoamericana de Comunicación y Educación = Scientific Journal of Media Education, 57(4).

Waas, T., Hugé, J., Verbruggen, A., Wright, T. (2011). Sustainable Development: A Bird's Eye View. Sustainability, 3(10), 1637–1661.

Walker, A. M., Opferkuch, K., Roos Lindgreen, E., Raggi, A., Simboli, A., Vermeulen, W. J. V., Caeiro, S., Salomone, R. (2021). What is the relation between Circular Economy and Sustainability? Answers from Frontrunner Companies engaged with Circular Economy practices. Circular Economy and Sustainability, 731–758.

MODULE 2

<u>Bergman, D. (2013)</u>. Sustainable Design: A Critical Guide. Princeton Architectural Press <u>Bowers Micah</u>. Compelling and Moving: A guide to motion design principles

<u>Chick, A., Micklethwaite, P. (2011)</u>. Design for Sustainable Change: How Design and Designers Can Drive the Sustainability Agenda. Paperback.

<u>Dragićević Šešić, M., Brkić, A., Matejić, J. (2015)</u>. Mobilizing urban neighbourhoods: artivism, identity, and cultural sustainability. In Culture and surtainability in European cities: imagining Europolis. Routledge, pp. 193-205. ISBN 978-1-138-77841-2.

Hadjipapa, S. (2022). EMERGENCY, INFLUENCE AND PRACTICE: CULTURE AND THE GREEN AGENDA Reflections on the webinar and conference. Retrieved November 9, 2022, from

<u>Irwin, T. (2015)</u>. Transition design: A proposal for a new area of design practice, study, and research. Design and Culture, 7(2), 229-246.

Irwin, Terry, Cameron Tonkinwise, and Gideon Kossoff. (2022). "Transition design: An educational framework for advancing the study and design of sustainable transitions." Cuadernos del Centro de Estudios en Diseño y Comunicación. Ensayos 105. 31-72.

<u>Fabian, L., Reestorff, C. M. (2015)</u>. Mediatization and the transformations of cultural activism. Conjunctions. Transdisciplinary Journal of Cultural Participation, 2(1), 1-20

Marques, A., Veiga, P. A. (2019). Digital Artivism and Collaborative Artistic Practice: Usage in a School Environment as a Citizenship Development Tool. In Proceedings of Artech 2019, the 9th International Conference on Digital and Interactive Arts, ACM Digital Library. 1-10.

Miles, M. (2014). Eco-Aesthetics: Art, Literature and Architecture in a Period of Climate Change. London/NY: Bloomsbury.

<u>Van der Veen, R., Hakkerainen, V., Peeters, J., Trotto, A. (2018)</u>. Understanding transformations through design: can resilience thinking help? In Proceedings of the Twelfth International Conference on Tangible, Embedded, and Embodied Interaction. 694-702).

<u>Vico, A., Jivkova-Semova, D., Bailey, O. (2018)</u>. Artivism: A new educative language for transformative social action. In Comunicar: Revista Científica Iberoamericana de Comunicación y Educación = Scientific Journal of Media Education, 57(4).

Walker, B., Salt, D. (2012). Understanding Transformations through Design: Can

Resilience Thinking Help? Islan press.

Wals, A., Weakland, J., Corcoran, P. (2017). Preparing for the Ecocene: Envisioning

 $futures for \, environmental \, and \, sustainability \, education. \, Japanese \, Journal \, of \, Environmental \, and \, sustainability \, education. \, Japanese \, Journal \, of \, Environmental \, education \, and \, educ$

Education. 26. 4 71-76. 10.5647/jsoee.26. 4-71.

Weintraub, L. (2019). What's next?: Eco materialism and contemporary art. Intellect.

Universitatea din Pitesti UPIT. (2016). Green Entrepreneurship Training (GET-UP)

(2016). Project IO6 - Policy Paper.

9. ASSESSMENT

The SLP assumes the mandatory continuous assessment regime, with no final

assessment in the form of an exam. The trainees' final classification is based on the

completion of small works in each Lesson, entitled "Assessment Activities". The type of

assessment activities is very diverse depending on the module and respective objectives.

The final classification will be expressed on a scale of 0 to 20 values and will correspond

to the average of the classifications in at least 2 obligatory modules (with equal weight in

the final classification), rounded to the nearest number.

Completion of the SLP requires approval in both obligatory modules, with a total grade

equal to or greater than 10 points.

10. CERTIFICATION

A certificate will be awarded by Universidade Aberta after successful completion of

the SLP Art, Design, and Sustainability. For those who will participate in Module 3, a

certification for participation will also be awarded.

For students enrolled in formal courses at Universidade Aberta, this microcredential may

be accredited within their course programs.

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ART, DESIGN & SUSTAINABILITY WITH SPECIAL FOCUS ON ENVIRONMENT AND CLIMATE CHANGE
- SHORT LEARNING PROGRAM -

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