



KA220-HED - Cooperation partnerships in higher education
**DEEPCEL (The Digital Electronic with Eco-designed Paradigm in Collaborative
Enhanced Learning)**

REFERENCE: 2024-1-FR01-KA220-HED-000255190

Coordinator: University of Tours

Sustainable and Eco-design in Electronics: A Teacher Training Program

Delivery format: Hybrid – *In-person and Online via live sessions*

University of Alcalá. Pl. de San Diego, 28801 Alcalá de Henares, Madrid

Rectorado. Sala de Conferencias Internacionales

Dates: 11th–12th September 2025

Duration: 9 hours over 2 days

REGISTRATION: <https://forms.office.com/e/8auzgZeZsy>

Registration is currently open and will close on July 30, 2025.

Overview

This intensive 2-day training course is part of the **DEEPCEL** project. It is aimed at **higher education teachers** in electronics and related fields who are interested in integrating **sustainability and eco-design** into their teaching practice. The course combines theoretical insights with practical sessions and collaborative strategies.

Training Format and Methodology

- **Blended delivery:** In-person sessions and remote presentations
- **Theoretical content:** Expert talks, Q&A, and discussion
- **Practical learning:** Hands-on tools, case studies, and collaborative projects
- **Resources:** Open-source electronic design tools and materials

Program Schedule

Day 1 – Thursday, 11 September 2025

Time	Session
	Introduction to Sustainable Projects
09:30–10:15	<i>Lena Costecalde. University of Tours – Pedagogy & sustainability in education</i> <ul style="list-style-type: none">• Eco-design needs• Circular economy challenges
	Life Cycle Analysis (LCA) for Electronics (Remote)
10:30–11:15	<i>Hugo Helbling. University of Lyon – Life Cycle Analysis in electrical systems (Remote)</i> <ul style="list-style-type: none">• LCA tools & methodologies



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Time	Session
	<ul style="list-style-type: none">• Teaching LCA• Case examples
11:15–11:45	Coffee Break
	Open Hardware Modularity <i>Cristian Zambelli. University of Ferrara – Hardware design and modularity</i>
11:45–13:00	<ul style="list-style-type: none">• Open-source benefits• Reconfigurable designs• Modular circuit demos
13:00–14:30	Lunch break
	Sustainable E-Design <i>Lenka Koskova Triskova. Technical University of Liberec – Sustainable software design</i>
15:00–16:15	<ul style="list-style-type: none">• Software impact on sustainability• Best practices to reduce e-waste
16:30–18:30	DEEPCEL Internal meeting
18:30	Social Activity – Visit to University of Alcalá and Paraninfo.

Day 2 – Friday, 12 September 2025

Time	Session
	Recoverability & Reusability of Electronics (Remote) <i>Nicolas Perry. University of Bordeaux – Industry 4.0 and electronic reuse (Remote)</i>
09:30–10:45	<ul style="list-style-type: none">• Critical materials• End-of-life strategies• Industry 4.0 tools
10:45–11:15	Coffee Break
	Educational Strategies for Teaching Sustainability <i>Gaelle Berton. University of Tours – Engineering training and sustainability integration</i>
11:15–12:30	<ul style="list-style-type: none">• Curriculum integration• Interdisciplinary methods• Circular design pedagogy
12:30–13:00	Discussion & Call to Action <ul style="list-style-type: none">• Open questions and future collaboration proposals
13:00–14:30	Course closure



Co-funded by
the European Union