

Newsletter

05/2022

Starting date

01.11.2019

Duration:

36 months

Partners

Lodz University of
Technology (Poland) -
project coordinator



University of Thessaly
(Greece)



University of Aveiro
(Portugal)



University of Library
Studies and Information
Technologies (Bulgaria)



University of Tallinn
(Estonia)

High5 project

Transdisciplinary Methodology for Integrated Design in Higher Education

AIM: Creation of a new methodology of solving engineering/business problems - **Integrated Design approach**. It is based on already existing methods and approaches:

- Design Thinking
- Problem Based Learning
- Sustainable development,
- Circular economy,
- Innovation thinking,
- Entrepreneurial skills.



HIGH 5

Key Actions:

- Formation of Integrated Design on the bases of common knowledge and experience
- Elaboration of Materials for both teachers and students
- Creation of on-line course for teachers
- Conduction of student's team projects during International summer schools
- Evaluation of projects
- Preparation of Integrated Design course program
- Collecting good practices in handbook form
- Boosting creativity of various target groups
- Organizing Project's Final Conference to share with the world: Integrated Design

Multiplier event in Lamia

On Thursday, December 9, 2021, an event on Design Thinking and Learning was co-organized by the Educational Authorities of Sterea Ellada (PEKES) and the Creative Technologies Learning Lab (<http://ctl.e-ce.uth.gr>) research group of the Department of Electrical and Computer Engineering (DECE).

The event took place at the 5th General Lyceum of Lamia with the participation of secondary school teachers.



The audience participated in experiential design thinking learning activities that can be transferred to the classroom for developing innovative thinking among students, who will be the problem solvers of tomorrow addressing complex 21st century challenges on sustainable development. A total of 20 educators participated in the event.

Contact Us

Project website

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The event was welcomed by Mr. Christos Markantonis, Organizational Coordinator of PEKES Sterea Ellada and Ms. Eleni Eleni Papantoniou, Educational Consultant of PEKES Sterea Ellada.



Teams working in groups during the multiplier event

Summer School on Innovation in Volos, Greece

The Creative Technologies Learning Lab co-organized a week-long international summer school that aims to promote innovative thinking among higher education students. The summer school is organized from 9 to 15 May at the Tsalapatas complex in Volos, Greece.



The event is attended by 26 students from Poland, Portugal, Estonia, Bulgaria, and Greece. Students will be guided by an international team of 10 mentors from the same countries. Participants work in teams towards introducing innovative solutions to sustainability challenges, such as sustainable tourism, sustainable production and consumption, sustainable buildings, sustainable energy, and more.

They apply a combination of design thinking and problem-solving methodologies, which allow design teams to think out of the box and design feasible and viable solutions to complex modern challenges by considering real, as opposed to perceived, needs. The proposed methodology is based on a process of problem discovery, empathy, ideation, prototyping, and evaluation.

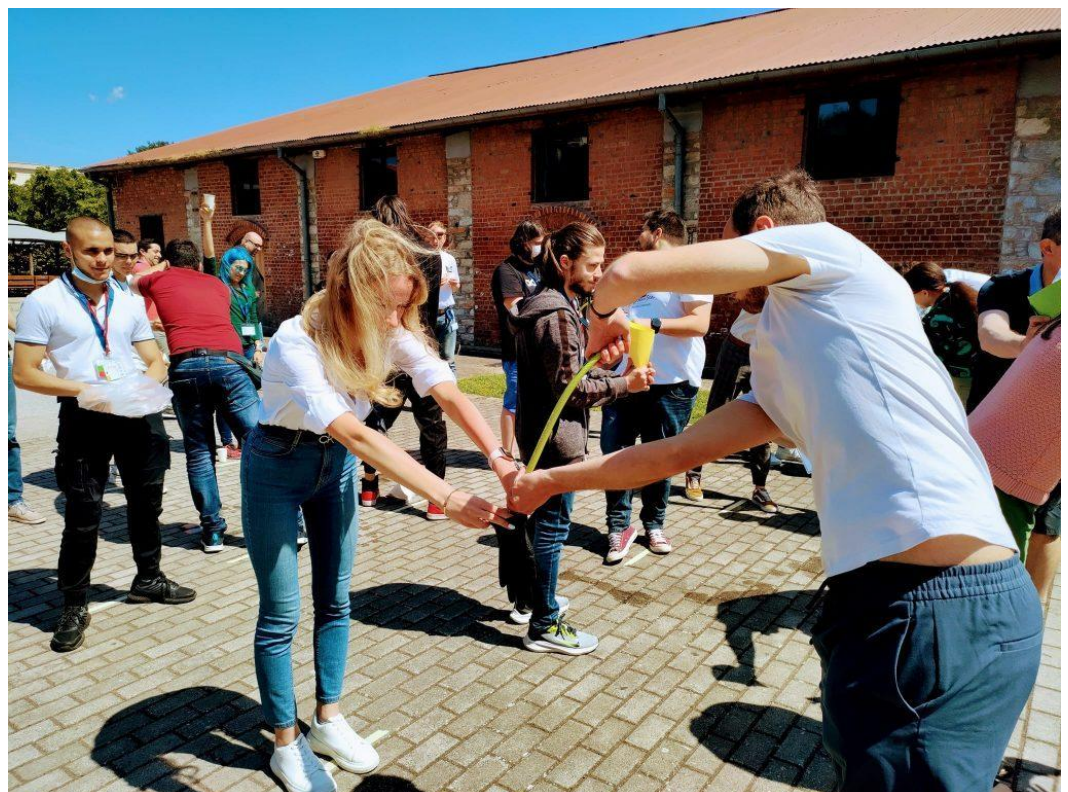


During the first day of the summer school, student teams made a presentation of their country and themselves. They were introduced to the topic of the summer school, which is sustainability. Each team was assigned a different theme,

including sustainable mobility, sustainable buildings, sustainable tourism, sustainable production and consumption, and clean energy.



Then students were placed in international teams and engaged in team building activities in the form of a city game that also allowed them to get to know their host town of Volos, where they will spend the rest of the week.



In the second day of the summer school, teams presented their city game experiences. They engaged in problem discovery activities.

Furthermore, they engaged in user analysis activities, organizing and implementing interviews that lead to a user persona.



In the following days, students engaged in ideation processes for introducing diverse ideas to their problem of choice and designed a solution that they documented in a poster, which was presented to all participants at the end of the summer school.



In the final day of the summer school, the activities were hosted in the Energy Lab space of the new building of the Department of Electrical and Computer Engineering.



Finally, a farewell dinner was organized, in which participants received certificates of attendance, while the best project was voted for and rewarded. The experience was very positive for both students and mentors.



Group photo of mentors and students that participated in the Summer School in Volos

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