



EUROPEAN DIGITAL EDUCATION FOR SOCIAL INCLUSION AND GLOBAL NEIGHBOURHOOD

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Important notice:

STATUS: CURRENTLY SUSPENDED DUE
TO COVID-19 MEASURES.



Join the Learning Exchange Platform

In order to help the participants and anyone interested to exchange ideas, knowledge and have a space where they can discuss, a Learning Exchange Platform has been deployed within the project's website.

In the Learning Exchange Platform you will be able to exchange ideas, as well as discuss experiences and challenges with Training Hotspots' participants from your own region as well as from other European countries, trainers or anyone who is interested in the Industry 4.0 technologies.

Additionally, you can ask questions, share your successes, projects and more!

**FOR MORE INFORMATION VISIT
WWW.E-DESIGNPROJECT.EU**

C.I.P launched the second ICT Training Hotspot in Cyprus

January 2020

Following a successful organisational meeting with teachers and school representatives of the Second Technical and Vocational School of Education and Training Grigori Afxentiou in Limassol, Cyprus in January 2020, C.I.P Citizens in Power launched the second ICT Training Hotspot, targeted for students between 16 and 19 years old. The Hotspot, which will be running until mid-April, offers two courses: one on Web Development, taking place on Mondays and one on 3D Modelling, on Thursdays.



Having started respectively on January 13th and 16th, each School Hotspot classes host every week around 12-14 participants from different backgrounds at the facilities of the second VET School in Limassol. Students are between 17 and 18 years old, mixed-gender, in their majority Cypriots and with a basic to average knowledge of the subjects, but with eagerness and aptitude to learn quickly.

Within the framework of the Web Development course, participants aim to create a website with applicability to their everyday needs on a theme of their choice.

To do so, they will first need to learn how to develop a website using Wordpress. As such, every week's course focuses on a new topic to help participants reach the aim. Next week's topic will be online shop creation.

In respect to the 3D modelling course, participants aspire to design and print 3D models. To do so, the course introduced them to software, like Fusion 360 (used to design models) and Ultimaker Cura (used to transcribe the model file into a printer code for the manufacturing of the physical objects), on which the students train before printing.



In the coming weeks, participants will start working on their final projects, while some ideas have already blossomed: Photis, a participant of the Web Developing course, has created a website to facilitate one in their search for taxi services. We expect some additional innovative ideas by the end of the modules, out of which the best ones will be awarded.

Stay tuned to discover them!



First ICT Training Hotspot in Italy in the community

December 2019

The first course of the ICT-Training Hotspot in collaboration with Ideas Box in Palermo, Italy has finished and was evaluated by participants and trainers as a success.

The course was attended by both Italians and foreigners, including asylum seekers, and touched upon the topics of micro-controllers, web development and Internet of Things. All participants followed the same first part of the course, in which the topics were explained and the participants could try out some exercises themselves, often in couples.

In this way, the course did not only teach technical competences, but also transversal ones such as design thinking, team work, time management, and problem solving. In fact, the human relationships and the sharing of ideas and work, were amongst the aspects of the course that were evaluated very positively by the participants. At the middle of the course, participants choose their own topic for a personal project, which give rise to a remote-controlled driving robot, an infrared alarm for the house able to be controlled and send information to a website, and a hydroponic vase regulated by an Arduino circuit for water and air supply. All reactions were very positive to the course and participants even wanted it to last longer.



The first ICT Training Hotspot from CEPROF

February 2020

The first ICT Training Hotspot from CEPROF has started in November, in Portugal, and is being implemented in Escola Profissional de Cortegaça (VET School of Cortegaça) located in the municipality of Ovar.

Participants of this Training Hotspot are students of the school and even though there are mixed students from different VET areas and different backgrounds, they have shown interest in getting to know the benefits and demands of the Industry 4.0, in general and in the future, and the opportunities that can derive from it. Therefore, based on the participants' interest, two courses, dealing with Microcontrollers, 3D Modelling and App Development topics, were prepared.

So far, we have reached the conclusion that the students are enjoying the sessions, not only because they are motivated to develop the activities presented by the trainer, but also because they get to work in groups which has allowed them to develop interpersonal skills and put to work their creative thinking and problem solving skills.



As a part of the courses, the participants have been asked to think about a project that they would like to develop further in the sessions. In this context, they will have the autonomy and equipment to create their idea from scratch while using the knowledge acquired throughout the Training Hotspot sessions!

The second Training Hotspot in partnership with the Parish Council of Anta and Guetim located East of Espinho, will be held for the community and so its residents will have the chance to take part in similar courses as well!

Two courses completed in Greece in the first ICT Training Hotspot

February 2020

The first two courses were completed in the first ICT Training Hotspot in Greece, in the 1st Elementary School of Gerakas. The courses started in late October and were completed in mid-December. The two courses selected were about Web/App Development and IoT/Micro-controllers. The first course took place on Mondays and the second on Wednesdays.

The total number of participants for both courses was 38. The age of the participants was between 17-34 from different educational backgrounds. The vast majority of the participants was male. Their countries of origin were mainly Pakistan and Syria.



The participants learnt about web development and eventually they were able to produce simple personal projects, such as example websites using the knowledge they were offered during the course. For the IoT/Microcontrollers course, there were also personal projects developed with the guidance and help of our trainers.

First ICT Training Hotspot still running, second launched in Germany

March 2020

ZAUG opened its first community Hotspot in the Local Youth Center in Heuchelheim in February.

Currently there are 12 participants, locals, refugees and migrants (age 16 to 55) with different backgrounds, working actively on different projects together: One group is designing an ultrasonic controlled motorized vehicle, which will autonomously avoid obstacles by driving around them. The vehicle uses an Arduino microcontroller two motors with wheels and 4 ultrasonic sensors.



The Prototype is already built and it works well. Another group is building up a remote-controlled robot vehicle which uses so called “mecanum wheels” which allows the robot to move directly in all directions without having to turn around. Another group is working on a project to find stolen bicycles by tracking the location of a GPS transmitter via SMS. Participants of all courses are interested and enthusiastic to learn technical and digital skills that enable them to design and create projects and useful tools on their own. They also enjoy to support each other and work in groups a lot.

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First ICT Training Hotspot still running, second launched in Germany

March 2020

The first ICT Training Hotspot has been running since last year at the Dietrich-Bonhoeffer-School in Lich.

The first course has enabled 7 boys and 4 girls from 9th and 10th grade to experience working and learning in a kind of Makerspace in their school.

The course is currently at the state of project development. For example, one group is developing a kind of feedback and control system for classrooms.

CO2 level, acoustic volume and temperature are checked by the system that gives feedback via LEDs or sound. So if the CO2 level is going too high within the class, the LED traffic light turns to red to signalize that the windows should be opened. Further, if a threshold noise level is reached, an acoustic alarm will remind the kids to decrease the volume.

In February, the second course “Printing Workshop” started with 12 students. After setting up the computers with the applied Software, 3D Zephyr Free, and getting used to the new specific classroom environment, lesson routine has started to settle in. In 2 mainly theoretical sessions at the beginning of the course, students were taught the main functions and purposes of the software.

Being aware of the data collecting requirements for successful photogrammetric projects, students are now starting to collect data by taking pictures of target objects. The next session will mainly aim at reconfiguring and improving data collection by critical reflection of first rendering results.

The aim of the course is to enable the students to 3D-scan various objects via the photogrammetry procedure. In photogrammetry, a large number of 2D photos - taken from different perspectives - are digitally processed to form a three-dimensional image.

