AI&SUSTAINABILITY IN VET EDUCATION

DISSEMINATION EVENT IN SKOPJE, N.MACEDONIA

On the 9th of October 2024, Sredno elektrotehnicko uciliste na Grad Skopje " Mihajlo Pupin" - Skopje (VET centre located in the capital of North Macedonia), had the dissemination event of the AI & SUSTAINABILITY Erasmus+ project.

The team members thanked the professors for their presence and began to present the AI & Sustainability in VET Education project to them. They presented the work from the training in Darica, Turkey. They introduced them to the topics covered and the equipment brought.

Key highlights of the dissemination event include:

- An introduction to the AI & Sustainability in VET Education project.
- Presentation of training outcomes from Darica, Turkey, focusing on Raspberry Pi 5 technology.
- Overview of Raspberry Pi components, actuators, and sensors.
- Demonstration of the nine additional projects involving Raspberry Pi 5 completed during training.
- Engagement with professors through a Q&A session, emphasizing the availability of online training for their students to participate in existing and new projects.

COORDINATOR

***KAUNO TECHNOLOGIJOS UNIVERSITETAS**

PARTNERS

- DDE B Athinas
- POLITEKNIKA IKASTEGIA TXORIERRI S.COOP
- DARICA ILCE MILLI EGITIM MUDURLUGU
- Sredno elektrotehnicko uciliste na Grad Skopje Mihajlo Pupin North Macedonia
- ASSOCIATION EUROPEENNE POUR LA FORMATION PROFESSIONNELLE
- Sucessos Criativos, Lda
- INSTITUTO POLITECNICO DO PORTO

Co-funded by the European Union

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We presented the introduction to the Raspberry Pi and its basic components. Then we presented the basic actuators and sensors of the Raspberry PI. Then the dissemination continued with the presentation of 9 practical exercises for using the Raspberry PI 5, done during the training in Darica. For this, the professors were shown the complete Raspberry PI equipment with the additional elements. Then, we showed the professors how to set up an account with GitHub, as well as basic Git commands. Then we presented the Temperature-based Servo Control Project.

Also, the dates for our **second training in Greece (Athens)** was decided: **from the 18th to the 22nd of November 2024.**

The presented projects were:

1. Blinking a LED
2. Control a servo motor
3. Detecting light with an LDR sensor
4. Measuring distance with an ultrasonic sensor
5. Light – controlled window automation for energy efficiency
6. Working with OLED display
7. Controlling neopixel strip
8. Energy efficient distance monitoring and visual feedback system
9. Connecting the camera.

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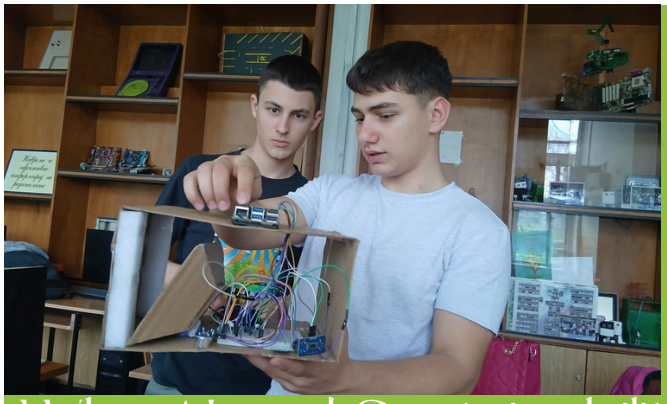

Why AI and Sustainability?

Artificial intelligence (AI) and sustainability are increasingly vital in vocational education and training (VET) due to the evolving demands of the labour market and the need for environmentally conscious practices. AI is transforming many industries, creating a demand for workers skilled in operating and managing AI-driven systems. By integrating AI into VET, institutions can ensure students acquire these essential skills, keeping pace with technological advancements. AI also modernizes education by personalizing learning and enhancing hands-on training through simulations.
On the other hand, sustainability is crucial as industries shift toward green practices, requiring workers who understand eco-friendly technologies and resource-efficient methods. VET programs focused on sustainability prepare students for emerging roles in renewable energy and other green sectors, aligning with global efforts to address climate change.

Incorporating AI and sustainability into VET also contributes to economic growth, innovation, and global competitiveness. AI boosts productivity and drives innovation across sectors, while sustainability leads to cost savings and long-term business success. Together, they address skill gaps in the workforce, support the growing green economy, and foster lifelong learning. By focusing on these areas, VET programs equip students with the adaptability needed in a rapidly changing job market and encourage socially responsible, environmentally aware practices. This ensures that graduates are not only prepared for current industry needs but are also capable of leading in the development of sustainable and technologically advanced industries in the future.

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