

AI&SUSTAINABILITY IN VET EDUCATION

CAPACITY TRAINING FOR VET TEACHERS IN DARICA, TÜRKİYE

AI-SAVES: ARTIFICIAL INTELLIGENCE AND SUSTAINABLE AUTOMATED VISION FOR ENVIRONMENTAL SOLUTIONS IN VET EDUCATION

16-20.09.2024

On the 16th and 20th of September 2024, The Erasmus project titled "AI & Sustainability in Vet Education", hosted by Darıca District Directorate of National Education, started with the opening speech of the District Director of National Education in Darıc,Türkiye. Mr. Balay highlighted the importance of Erasmus projects in integrating different cultures and emphasized that such projects are of great value in terms of vocational education and sustainability in the age of artificial intelligence.

After the director, Municipality Councilor welcomed the guests to Darıca and emphasized the role of artificial intelligence in sustainable environmental solutions. Ramazanoğlu stated that such projects make an important contribution to the development of innovative and sustainable approaches to environmental problems. Then the program was started by the project coordinator of DIMEM.

On the first day of the project,

EVENT 1: PRESENTATION ON AI CONCEPTS and DEFINITIONS

Kristina Sutiene and Liepa Bikulciene from Kauno Technologijos Univarsıtetas gave a presentation on the concepts and definitions of artificial intelligence. Discussed foundational concepts and definitions related to Artificial Intelligence (AI) to establish a common understanding among team members









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

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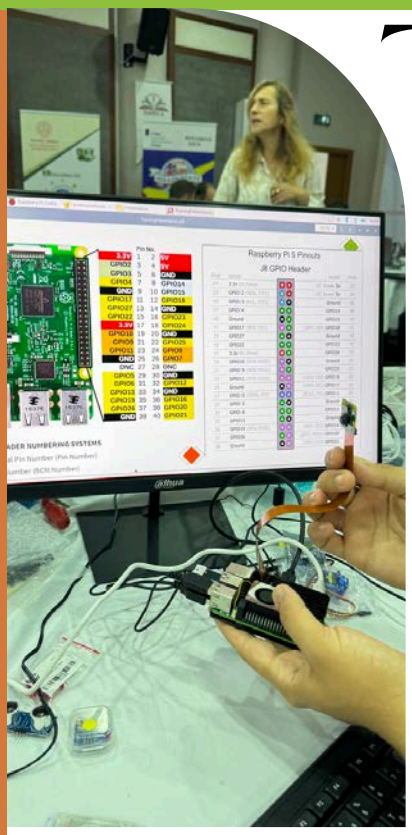
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During our second day,

EVENT 2: INTRODUCTION and BASICS to RASPBERRY PI - Fatima Pais gave information about the basics and introduction of Raspberry Pi. General information about the models and specifications of Raspberry Pi was given. The groups worked effectively. Cases and projects were used.

INSTALLATION of OPERATING SYSTEM on SD CARD - The availability of the necessary materials (Raspberry Pi, SD card, card reader and computer) was checked. Raspbian OS was downloaded. First boot setup was completed.

HELLO WORLD in PYTHON - Hello World was started in a simple way by logging into Python on Raspberry Pi. The session of writing and running a simple 'Hello World' script.



The third day was started with the introduction and WP3. The Professors and Sucessos Critiavos held the sessions by supervising the same project groups.

EVENT 3:
INTRODUCTION and BASICS – ESP 32 -
Introductory information about ESP 32 was given. Basic information was given and an introduction to the subject was provided. Emphasis was placed on the theoretical in this context.

PROJECT IMPLEMENTATION and VERSION CONTROL with GITHUB - GitHub accounts are set.

BASIC COMMANDS on GIT - Basic Git commands (clone, commit, push, pull) were given. Repositories were created and managed.

TEMPERATURE-BASED SERVO CONTROL PROJECT -
The necessary information of the control project was given.

REQUIRED COMPONENTS - The necessary parts (temperature sensor, servo motor, breadboard and connecting wires) have been procured.

CIRCUIT DIAGRAM and SETUP - Circuit diagram and installation has been realised.

WRITING A PYTHON SCRIPT - Pyton script has been written to read temperature data and control the servo.

UPLOADING THE PROJECT to GITHUB - The project was uploaded to GitHub by the groups.

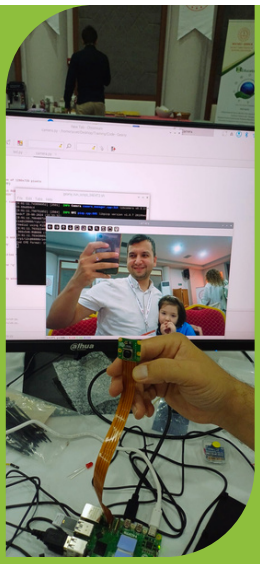






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INTRODUCTION AND WP4: HANDS ON PROJECT

The 4th Day started with hands on projects,

EVENT 4: HANDS OND PROJECT – Part 1: The implementation phase of the project has started. In the first part, various controls were provided and applications were monitored.

EVENT 4: HANDS OND PROJECT – Part 2: In the second part, the implementation of the project continued. Implemented projects were observed by the groups.

THE COORDINATOR'S MEETING

- **REVIEW OF THE TRAINING AND THE TASKS**
- **RASPBERRY PI KITS & AI&SAVES KITs**
- **NEXT FACE TO FACE TRAINING IN GREECE**



On the last day,

EVALUATION AND FOLLOW-UP

EVALUATION and FOLLOW UP – In this section, the evaluation and monitoring of the activities carried out during the project activities were carried out.

CERTIFICATE CEREMONY



DARICA

NOTES ON THE CITY

Darica is a district located in the Kocaeli Province, Türkiye. It sits on the northeastern coast of the Sea of Marmara.

It is part of the Marmara Region and lies close to Istanbul, about 38 km east of Istanbul's city center. This proximity makes it an attractive location for people who work in Istanbul but prefer a quieter living environment.

Darica has a mixed economy with industrial, commercial, and residential areas. Its industrial sector benefits from the greater industrial infrastructure of Kocaeli, which is one of Turkey's most important industrial hubs.

Darica combines a touch of historical charm, coastal beauty, and modern amenities, making it an appealing district for both locals and visitors.



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CULTURAL ACTIVITIES OF AIVET GROUP













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