APPLİCANT INSTİTUTİON

HACI HASAN KOVUK VOCATIONAL TRAINING CENTER

PROJECT NUMBER

2023-2-TR01-KA210-VET-000180148

PROJECT NUMBER

NEW APPLICATIONS IN ELECTRIC VEHICLES TECHNOLOGY ACCORDİNG TO 4.0 STANDARDS

PROJECT ACTİVİTİES GUİDE

TÜRKİYE ULUSAL AJANSI
TURKISH NATIONAL AGENCY

Funded by
the European Union

It is funded by the European Union Erasmus+ Programme. However, the European Commission and the Turkish National Agency cannot be held responsible for any use of the information contained herein.

This document was prepared within the scope of the New Applıcatıons In Electrıc Vehıcles Technology According To 4.0 Standards project numbered 2023-2-TR01-KA210-VET-000180148 It is intended to guide vocational education trainers. It is free for users, cannot be sold or reproduced. It is published as an e-book on the Project Website (https://evta40.com)

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WHAT IS ERASMUS PLUS+ PROGRAM?

With the Erasmus+ Program, it is aimed to provide people with new skills regardless of their age and educational background, to strengthen their personal development and to increase their employment opportunities.

Three Main Actions

1	2	3
Learning Mobility of Individuals **(KA1)**	Cooperation Between Institutions and Organizations **(KA2)**	Political Development and Cooperation Support **(KA3)**
*Erasmus Learner and Staff Mobility	*Partnerships for Cooperation ➢ Partnerships for Cooperation ➢ Small-Scale Partnerships *Partnerships for Excellence *Partnerships for Innovation *Alliances for Innovation *Capacity Building in Youth *European Non-Profit Sporting Events	*European Youth Together *Jean Monnet Activities

Collaboration Partnership Types (NA)

Collaboration Partnerships

It supports joint initiatives that promote the development, transfer, implementation and/or exchange of experience, peer learning and collaboration of innovative (intellectual) practices. It requires concrete outputs.

Small-Scale Partnerships

- Easier application rules
- Encourage small organizations, institutions with no project experience, small companies at lower levels.
- Making projects easier
- Facilitating groups with limited opportunities
- Establishing cooperation networks
- Increase their international capacity

Horizontal Priorities Valid for All Erasmus+ Sectors

- Inclusion and diversity in all fields of education, training, youth and sport
- Fight against environmental and climate change
- Addressing digital transformation through development of digital readiness, resilience and capacity
- Common values, civic engagement and participation

VET-Specific Priorities (for basic and continuing vocational education)

- Adapting vocational education and training to labour market needs
- Increasing the flexibility of opportunities in vocational education and training
- Contributing to innovation in vocational education and training
- Increasing attractiveness of VET
- Improving quality assurance in vocational education and training
- Creation and implementation of internationalisation strategies for VET providers

PROJECT INFORMATION

Applicant Institution	Haci Hasan Kovuk Vocational Training Center
Project Number	2023-2-TR01-KA210-VET-000180148
Project Title	New Applications According to 4.0 Standards in Electric VehicleTechnologies
Project Date	01.06.2024 - 31.10.2025
Project Duration	17 months
Project Budget	60.000 Euro

Why was the project created?

Electric vehicle technologies are rapidly expanding in the transportation sector and create new knowledge and skill requirements in vocational education and training. However, the existing educational contents used in vocational education institutions do not sufficiently cover current developments and new applications aligned with Industry 4.0 standards in the field of electric vehicles. This situation limits the access of learners and educators to competences required by the labour market. Furthermore, within the framework of the European Green Deal, the promotion of sustainable and environmentally friendly mobility solutions requires the training of qualified human resources in the field of electric vehicles. This project has been designed to respond to these identified needs in vocational education and to develop up-to-date, digital learning contents compatible with Industry 4.0 standards in the field of electric vehicle technologies.

Objectives

The main objective of the project is to integrate new applications aligned with Industry 4.0 standards into vocational education in the field of electric vehicles. Within this scope, the project aims to develop up-to-date, digital and modular learning materials for vocational education, to increase the knowledge and awareness levels of vocational education teachers and learners regarding electric vehicle technologies, and to design educational content in line with labour market needs. The project also aims to create shareable and standardised educational resources among partner countries and to ensure accessible and sustainable learning outcomes through digital learning environments.

Target Groups

The direct target group of the project consists of students enrolled in vocational and technical education institutions and teachers and trainers working in these institutions. In addition, technical staff working or aiming to work in the field of electric vehicle technologies and institutions and stakeholders active in vocational education and training are included among the target groups. The indirect target group consists of individuals and sector representatives who will gain awareness in the field of sustainable mobility through the project results.

Activities and Implementation

The project will be implemented through a structured and phased process. Within this process, a project management and monitoring structure will be established, and kick-off and preparatory meetings will be organised with the participation of project partners. Surveys and needs analysis will be conducted with vocational education institutions and relevant stakeholders, and required training modules will be identified based on the results. Learning modules will then be developed on the identified topics, supported by digital learning content and educational videos, and all project outputs will be made available through online platforms and the project website.

Expected Results

At the end of the project, it is expected that vocational education modules aligned with Industry 4.0 standards in the field of electric vehicles will be developed, digital, up-to-date and free learning materials for vocational education will be created, and innovative and accessible educational content will be provided for teachers and learners. In addition, the project aims to strengthen the alignment between vocational education and labour market needs and to promote sustainable and environmentally friendly approaches in line with the objectives of the European Green Deal.

Sustainability and Dissemination

All educational materials developed within the project will be provided free of charge and in digital format, and long-term access will be ensured through the project website. This approach aims to guarantee the continued use and wide dissemination of project results in vocational education beyond the project duration.

Applicant Institution -
Hacı Hasan Kovuk Vocational Education Centre. (Türkiye)
https://hhkovuk.meb.k12.tr/

The applicant institution is the **Hacı Hasan Kovuk Vocational Education Centre**. The institution operates in the field of **vocational and technical education** and carries out training activities aimed at providing **qualified vocational skills** to students and adult learners. Hacı Hasan Kovuk Vocational Education Centre focuses on **alignment with labour market needs**, **practice-oriented learning**, and the **integration of up-to-date technologies into vocational education**. With the increasing dissemination of electric vehicle technologies, the institution aims to identify emerging training needs in this field and to contribute to the development of **educational content aligned with Industry 4.0 standards**. Within the scope of the project, the applicant institution is responsible for the **overall coordination of the project**, the planning, implementation and monitoring of activities, and the **integration of the developed educational outputs into the vocational education system**.

Partner organisation
Yenilikçi Sürdürülebilir Kalkınma Derneği (YESKAD) (Türkiye)
https://www.yeskad.org/

The partner organisation of the project is the Innovative Sustainable Development Association (YESKAD). YESKAD is a non-profit civil society organisation operating in the fields of sustainable development, vocational education, lifelong learning, digital education and environmentally friendly practices. Through national and international projects, the organisation carries out activities aimed at promoting innovative approaches in vocational education, supporting digital transformation, and strengthening environmental sustainability. Within the scope of this project on electric vehicles, YESKAD contributes to the development of educational content, supports digital and dissemination activities, and plays an active role in reaching the project outputs to the target groups.

Ortak kuruluş -Partner organisation
SC PROMOTOR REAL SERVICE SRL (Romania)
https://www.promotor-rs.ro/

The partner organisation of the project is SC PROMOTOR REAL SERVICE SRL (Romania). The organisation operates in Romania as an electric vehicle technical service. SC PROMOTOR REAL SERVICE SRL is active in the field of maintenance, repair and technical service of electric vehicles and has practical, field-based technical knowledge and experience. Within the scope of the project, the organisation contributes by providing practice-oriented feedback, evaluating the compatibility of the developed educational content with real service requirements, and supporting the dissemination of project outputs in technical service environments.

Project Timeline

New Applications According to 4.0 Standards in Electric Vehicle Technologies Project Timeline

No	Activity Title	Activity duration (in days)	Estimated start date	Estimated end date
1	Establishment of the Management and Monitoring Board and Remote meeting	60	1.06.2024	31.07.2024
2	Opening Meeting	3	31.10.2024	3.11.2024
3	Implementation of Surveys and	94	1.08.2024	3.11.2024
4	Identifying Modules and Creating Virtual Environments	6	4.11.2024	10.11.2024
5	Module Writing	81	11.11.2024	31.01.2025
6	Evaluation of Written Modules and Determination of Module Videos	3	8.04.2025	11.04.2025
7	Module Video Shooting	99	1.02.2025	11.05.2025
8	Reviewing Module Videos and publishing them in virtual environments and planning E-Learning Platform studies	6	12.05.2025	18.05.2025
9	Preparation of the E-Learning Platform	76	12.05.2025	27.07.2025
10	Release of the e-Learning Platform. Planning of dissemination activities.	3	20.08.2025	23.08.2025
11	Implementation of Dissemination Activities	95	28.07.2025	31.10.2025
12	Review of dissemination activities. on follow-up, sustainability and Final Report. meeting. Closing meeting	8	23.10.2025	31.10.2025
13	Preparation and Submission of Project Report	44	1.11.2025	15.12.2025

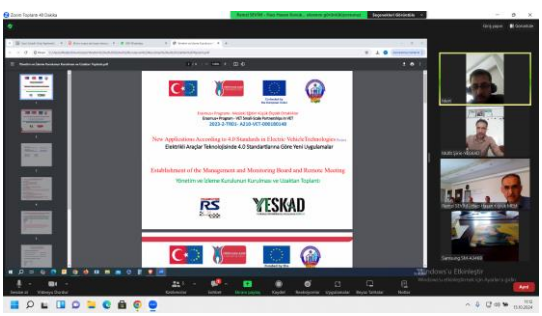
DİSSEMİNATİON ACTİVİTİES

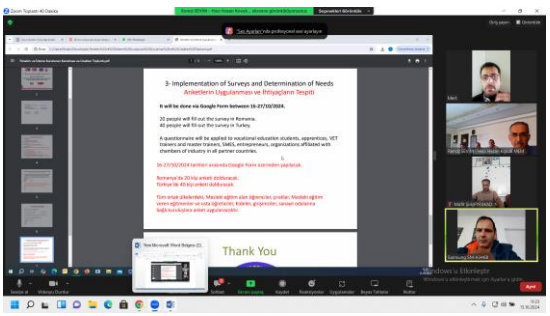
The work carried out within the scope of the project was shared on the project website and social media accounts.

Project website	https://evta40.com/	
Project's YouTube channel	https://www.youtube.com/@ElectricVehicles4.0	
Instagram page of the project	https://www.instagram.com/evta_40/	

A space was created for the project in Google Drive. Project materials and documents were shared.

Establishment of the Management and Monitoring Board and Virtual meeting





Açılış Toplantısı - Opening Meeting
(Malatya/Türkiye)

1 November 2024 - First Day

Introduction and distribution of the project information bulletin to the press.

Malatya promotion.
https://www.youtube.com/watch?v=h9IkudQWkOo

Malatya Apricot Promotional Film.
https://www.youtube.com/watch?v=VSh8VfexO8M

Information presentation about the project by the Project Coordinator, Hacı Hasan Kovuk Vocational Training Center.

Promotion of Türkiye and our institution.

SC PROMOTOR REAL SERVICE SRL institution's introduction presentation.

Innovative Sustainable Development Association institution's introduction presentation.

Break.

Establishment of working teams, including the Management and Monitoring Commission and the Dissemination Commission.

Evaluation of survey activities.

Exchange of information about module writing studies.

Lunch.

Visit to Yeşilyurt District National Education Directorate.

Technical visit to Şampiyon HYUNDAİ business.

Cultural visits.

Dinner.

02 November 2024 Second Day

Exchange of information about video shooting activities.

Discussion of activities to be carried out within the scope of the project related to the European Green Deal.

Discussion of Green Travel issues.

Break.

Creation of virtual environments and the project logo.

Lunch.

Cultural visits.

Dinner.

Needs Analysis and Survey Implementation Report


EVTA 4.0

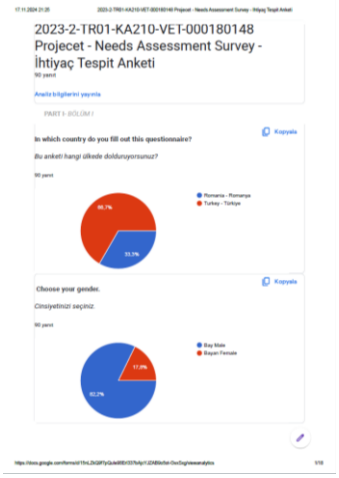
PROJECT NUMBER

2023-2-TR01-KA210-VET-000180148

PROJECT TITLE

NEW APPLICATIONS IN ELECTRIC VEHICLES TECHNOLOGY ACCORDİNG TO 4.0 STANDARDS

NEEDS ANALYSİS AND SURVEY IMPLEMENTATİON REPORT


2023-2-TR01-KA210-VET-000180148
Projecet - Needs Assessment Survey -
İhtiyaç Tespit Anketi

In which country do you fill out this questionnaire?

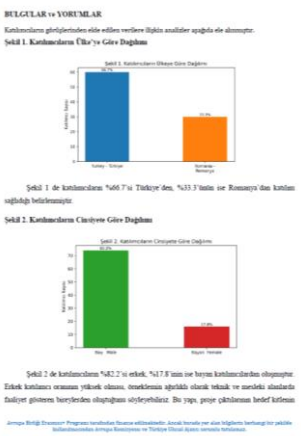
Bu anketi hangi ülkede doldurıyorsunuz?

Romania - Romanya
Turkey - Türkiye

Choose your gender.

Cinsiyetinizi seçiniz.

Bay Male
Bayan Female


BULGULAR ve YORUMLAR

Şekil 1. Katılımcıların Ülke'ye Göre Dağılımı

Şekil 2. Katılımcıların Cinsiyete Göre Dağılımı

Technical Terms Dictionary Prepared


EVTA 4.0

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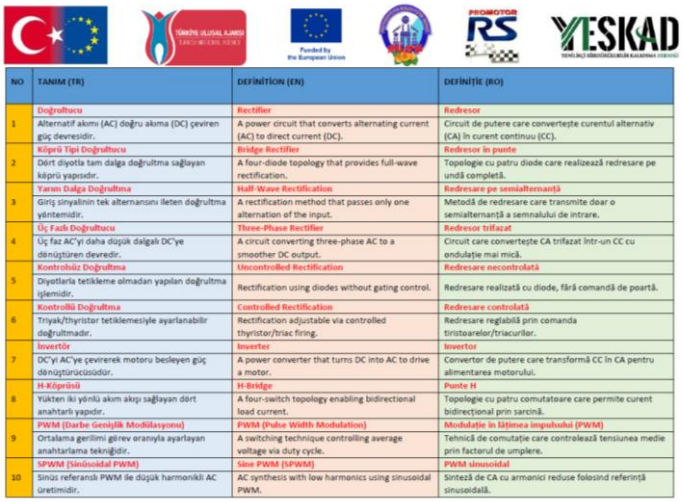
PROJECT TITLE

NEW APPLICATIONS IN ELECTRIC VEHICLES TECHNOLOGY ACCORDİNG TO 4.0 STANDARDS

DICTIONARY OF TECHNICAL TERMS

(TURKISH, ENGLISH, ROMANIAN)



NO	TANIM (TR)	DEFİNİTİON (EN)	DEFINIȚIE (RO)
1	Doğrultucu Alternatif akımı (AC) doğru akıma (DC) çeviren güç devresidir.	Rectifier A power circuit that converts alternating current (AC) to direct current (DC).	Redresor Circuit de putere care convertește curentul alternativ (CA) în curent continuu (CC).
2	Köprü Tipi Doğrultucu Dört diyotla tam dalga doğrultma sağlayan köprü yapısıdır.	Bridge Rectifier A four-diode topology that provides full-wave rectification.	Redresor în punte Topologie cu patru diode care realizează redresare pe undă completă.
3	Yarım Dalga Doğrultma Giriş sinyalinin tek alternansını ileten doğrultma yöntemidir.	Half-Wave Rectification A rectification method that passes only one alternation of the input.	Redresare pe semialternanță Metodă de redresare care transmite doar o semialternanță a semnalului de intrare.
4	Üç Fazlı Doğrultucu Üç faz AC'yi daha düşük dalgalı DC'ye dönüştüren devredir.	Three-Phase Rectifier A circuit converting three-phase AC to a smoother DC output.	Redresor trifazat Circuit care convertește CA trifazat într-un CC cu ondulație mai mică.
5	Kontrolsüz Doğrultma Diyotlarla tetikleme olmadan yapılan doğrultma işlemidir.	Uncontrolled Rectification Rectification using diodes without gating control.	Redresare necontrolată Redresare realizată cu diode, fără comandă de poartă.
6	Kontrollü Doğrultma Triyak/thyristor tetiklemesiyle ayarlanabilir doğrultmadır.	Controlled Rectification Rectification adjustable via controlled thyristor/triac firing.	Redresare controlată Redresare reglabilă prin comanda tiristoarelor/triacurilor.
7	İnvertör DC'yi AC'ye çevirerek motoru besleyen güç dönüştürücüsüdür.	Inverter A power converter that turns DC into AC to drive a motor.	Invertor Convertor de putere care transformă CC în CA pentru alimentarea motorului.
8	H-Köprüsü Yükten iki yönlü akım akışı sağlayan dört anahtarlı yapıdır.	H-Bridge A four-switch topology enabling bidirectional load current.	Punte H Topologie cu patru comutatoare care permite curent bidirecțional prin sarcină.
9	PWM (Darbe Genişlik Modülasyonu) Ortalama gerilimi görev oranıyla ayarlayan anahtarlama tekniğidir.	PWM (Pulse Width Modulation) A switching technique controlling average voltage via duty cycle.	Modulație în lățimea impulsului (PWM) Tehnică de comutație care controlează tensiunea medie prin factorul de umplere.
10	SPWM (Sinüsoidal PWM) Sinüs referanslı PWM ile düşük harmonikli AC üretimidir.	Sine PWM (SPWM) AC synthesis with low harmonics using sinusoidal PWM.	PWM sinusoidal Sinteză de CA cu armonici reduse folosind referință sinusoidală.

Institutions that received technical support during the Module Writing Process

1. SC PROMOTOR REAL SERVICE SRL (Romania)
2. Innovative Sustainable Development Association
3. Nergiz Automotive – Authorized KIA Service
4. TSE – Turkish Standards Institution
5. SARGEM – Occupational Safety and Training Services
6. İnönü University – Electrical and Electronics Engineering
7. Malatya Turgut Özal University – Vocational School
8. Malatya Provincial Directorate of Industry and Technology

Resources Used in Module Writing

1. Documents shared via two separate emails by SC PROMOTOR REAL SERVICE SRL
2. Documents shared via two emails following the visit of the Innovative Sustainable Development Association to Assoc. Prof. Dr. Murat KOSEOĞLU
3. Documents shared through the National Motor Vehicles Teachers' Network
4. Documents obtained through open-source searches conducted by field teachers
5. Documents shared via email following the visit of Hacı Hasan Kovuk Vocational Education Center to Lecturer Aziz ZENGİN
6. Current training modules used in the field of Motor Vehicles Technology

Sources Reviewed for Module Development

Source / Institution / Content	Description	Piece
SC PROMOTOR REAL SERVICE SRL	Documents obtained from the institution	44
Motor Vehicle Technology	Current new module contents	7
İnönü University Faculty of Engineering – Assoc. Prof. Dr. Murat KOSEOĞLU	Most recent updated documents	5
Motor Vehicles Technical Services	Documents obtained from technical services	84
Malatya Turgut Özal University Vocational School – Lecturer Aziz ZENGİN	Documents provided by the university	6
Motor Vehicle Technology	Existing training modules	172
Internet	Open source scan	36
TOTAL		**354**

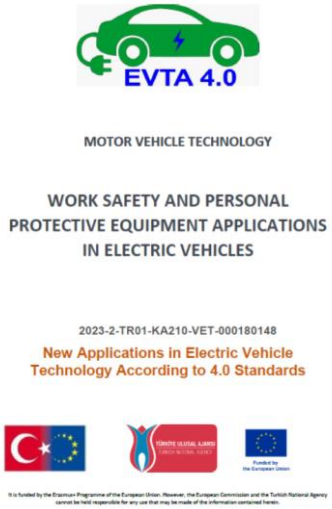
Written Modules

Module-1 Power Converter Systems In Electrıc Vehıcles

Module-2: Electric Motors and Drive Systems in Electric Vehicles

Module-3: Electric Vehicle Maintenance and Repair Module

Module-4: Work Safety and Personal Protective Equipment Applications in Electric Vehicles



Transnatıonal Meetıng-2 (TPM2) Program
(Bucharest / Romanıa)

29 April 2025 First Day

Introduction, distribution of the project information bulletin to the press by SC PROMOTOR REAL SERVICE SRL

Promotion of the country and the environment by the host institution SC PROMOTOR REAL SERVICE SRL

Providing information about the modules written and the video recordings produced by the coordinator country

Reviewing the created e-modules and recorded videos with the partners

Break.

Review of the written e-modules and recorded lesson videos

Lunch.

Evaluation of the video shooting team's work, discussion on the Green Europe icon used in the videos, and ensuring consistent use of the icon across all videos

Business technical visit

Cultural activities

Dinner.

30 April 2025 / Second Day

Collection of opinions on the E-Learning platform

Break.

Vocational Education Institution visit

Lunch.

Evaluation and certification

Cultural visits

Dinner.

MODULE VİDEOS SHOT

Module-1 Power Converter Systems In Electrıc Vehıcles

S. No.	Video Name EN_TR	YouTube Link
1	Role and Importance of Power Converters in Electric Vehicles	https://youtu.be/zjWw3MNkITo
2	Half-Wave Rectifier Circuit	https://youtu.be/6RGIBTY2WJM
3	Bridge-Type Full-Wave Rectifier Circuit	https://youtu.be/RMGF35myM8w
4	Three-Phase Full-Wave Rectification Process	https://youtu.be/qfnNbvJvZk4
5	AC-DC Converters and Vehicle Charging Systems	https://youtu.be/EL2jn8_V_7Y
6	DC-AC Converters and Motor Drive Systems	https://youtu.be/lufz1nuULoU
7	Regenerative Braking and Energy Recovery	https://youtu.be/smb7DNQg_60
8	DC-DC Converters: Buck, Boost and Buck-Boost Applications	https://youtu.be/YAbg13gjPQE
9	Efficiency, Thermal Management and Safety in Power Converters	https://youtu.be/9j_IMIR2ooA

Module-2 EV Electric Motors And Drive Systems

S. No.	Video Name EN_TR	YouTube Link
1	Electromagnetism and Fundamental Principles of Electric Motors	https://youtu.be/HBKBZwPzyc0
2	Electric Motors Used in Vehicles and Their Operating Principles	https://youtu.be/y0PT6MaL8Fs
3	Structure and Main Components of Asynchronous Motors	https://youtu.be/CW4kE3pDlPU
4	Rotating Magnetic Field and Operation of Asynchronous Motors	https://youtu.be/NCYjOwDnAlI
5	Types of Reluctance Motors and Operating Principles	https://youtu.be/oNGXXycRe6E
6	Structure and Components of Synchronous Motors	https://youtu.be/YnhYe3Rfq70
7	Operating Principle of Synchronous Motors	https://youtu.be/_r9oHidfh_s
8	History, Structure and Types of In-Wheel Motors	https://youtu.be/PIcujPiL3fM
9	Synchronous Generators and Regenerative Braking	https://youtu.be/PQB0MIRoJS4

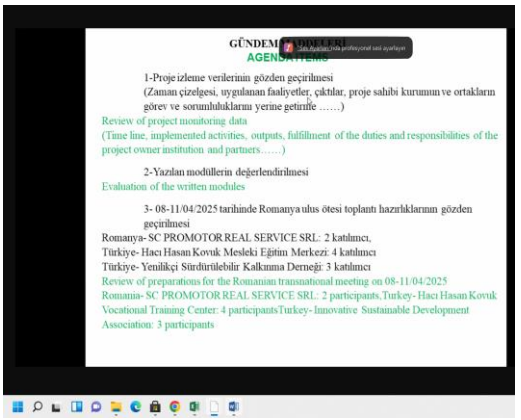
Module-3 Work Safety And Personal Protective Equipment Applications In Electric Vehicles

S. No.	Video Name EN_TR	YouTube Link
1	Personal Protective Equipment (PPE) Used in Electric Vehicles	https://youtu.be/pBXko25OeSM
2	Workshop Layout and Safety in Electric Vehicles	https://youtu.be/qv9xnPe4prs
3	Occupational Health and Safety – Safety Culture	https://youtu.be/C6JNictsHdE
4	OHS Procedures Before EV Maintenance and Repair	https://youtu.be/8Vkwdmxv54g
5	High Voltage Isolation in Electric Vehicles	https://youtu.be/DyMaAmBYgEo
6	OHS Measures Against Fire Hazards in Electric Vehicles	https://youtu.be/i78yH-Lziwc
7	Safety Signs in Electric Vehicles	https://youtu.be/EJIeG1aMRoo
8	Waste Segregation After EV Maintenance and Repair	https://youtu.be/03vQnoWQNCI

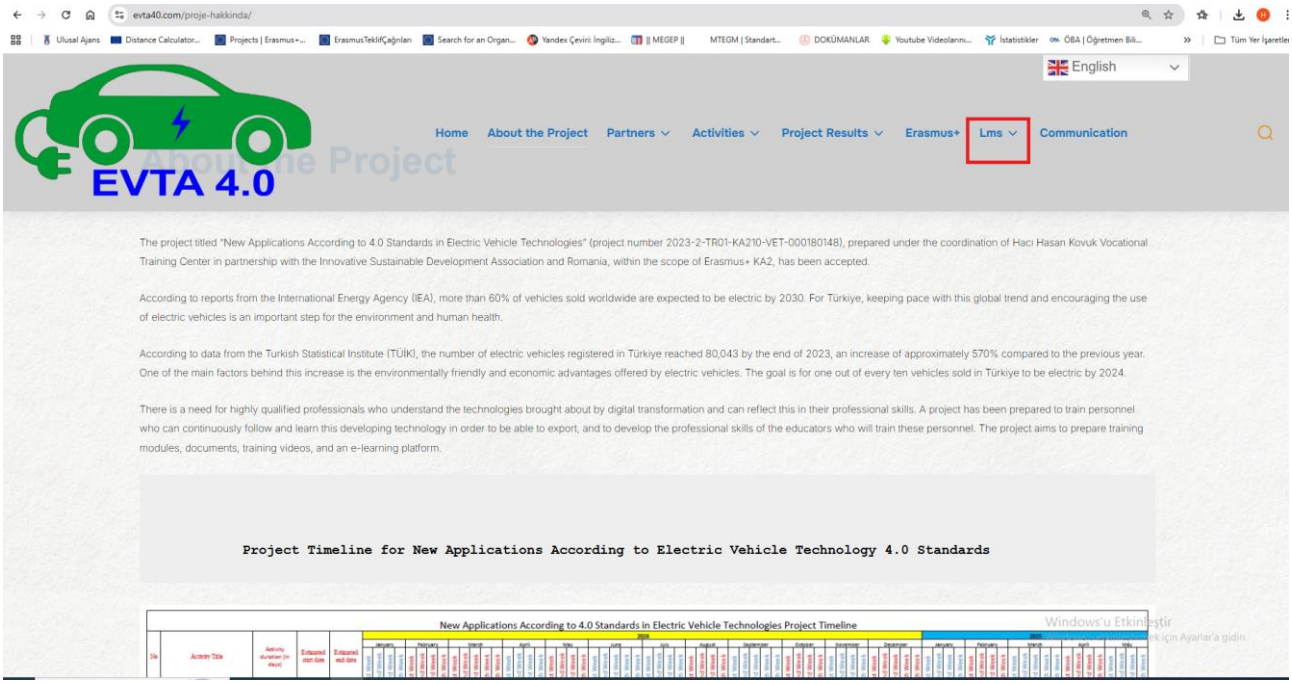
Module-4 Electric Vehicle Maintenance And Repair

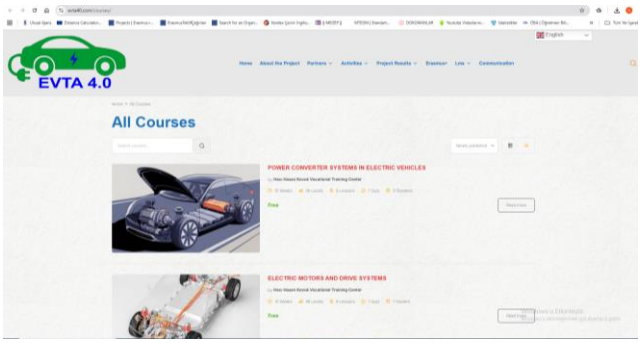
S. No	Video Name EN_TR	YouTube Link
1	Overview of Electric Vehicle Technologies	https://youtu.be/BblX6RvWFf8
2	Periodic Maintenance Comparison Between Electric Vehicles and Internal Combustion Engine Vehicles	https://youtu.be/X9h6pjifPts
3	Maintenance Inspection Procedures for Electric Vehicles 1	https://youtu.be/r2zM_JMwWRI
4	Maintenance Inspection Procedures for Electric Vehicles2	https://youtu.be/29Dw7WcHORQ
5	Risk Analysis Steps for Electric Vehicles	https://youtu.be/svmjBVvwKEQ
6	Personal Protective Equipment (PPE)	https://youtu.be/pBXko25OeSM
7	OHS Training for Personnel Working on Electric Vehicles	https://youtu.be/H5iHp64PFxY

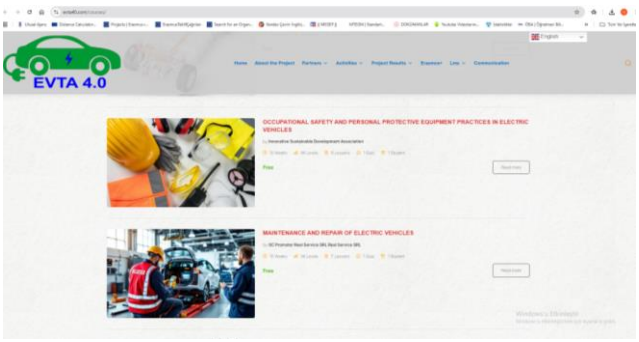
Project Monitoring and Video Shooting Activity Evaluation Meeting



Publication of virtual business Prototype with Digital Transformation in Solar Energy.







Transnational Meeting-3
(Malatya / Türkiye)

03 October 2025 First Day

Introduction – Distribution of the Project Information Bulletin to the Press

Presentation of the host country and local environment by the partner institution Innovative Sustainable Development Association (YESKAD)

Presentation of the modules prepared by the coordinating country

Presentation of the videos produced by the coordinating country

Break.

Evaluation of the prepared modules and produced videos

Lunch.

Review of the prepared E-Learning Platform and its publication in virtual environments

Technical visit to enterprises (Nergiz Automotive Industry Trade Ltd. Co.)

Dinner.

04 October 2025 Second Day

Evaluation of the dissemination and assessment strategy

Discussion on the use of the Green Europe visual in all activities

Break.

Exchange of information regarding the planned seminars and meetings

Task sharing on posters and brochures and their delivery to partners

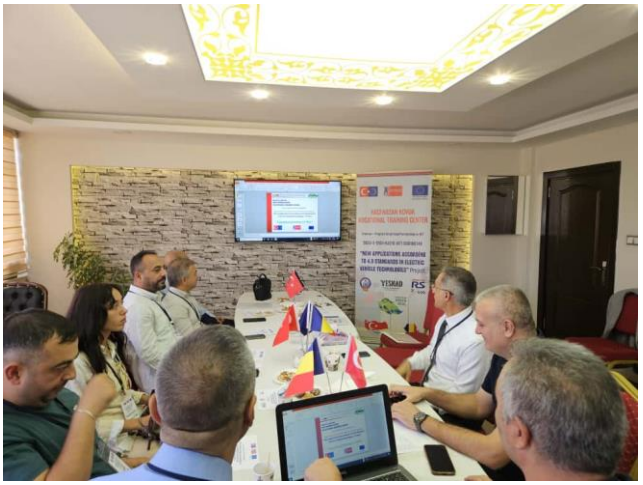
Lunch.

Discussion on whether the project objectives have been achieved

Certificate distribution

Cultural visits (Art Street, Photography Museum and Malatya House)

Dinner.




HACI HASAN KOVUK
ATIONAL TRAINING CENTE
YESKAD
EUROPEAN
GREEN
DEAL

DİSSEMİNATİON ACTİVİTİES

Presentation of Technical Visit and Project Activities for Nergiz Automotive – Authorized KIA Service Center

Technical visit to TSE – Turkish Standards Institute.

Introduction of Technical Visit and Project Activities for SARGEM – Occupational Safety and Training Services Company

Presentation of Technical Visit and Project Activities for Nergiz Automotive – Authorized KIA Service Center

Technical Visit to İnönü University Faculty of Engineering: Presentation of Project Activities and Academic Support Process

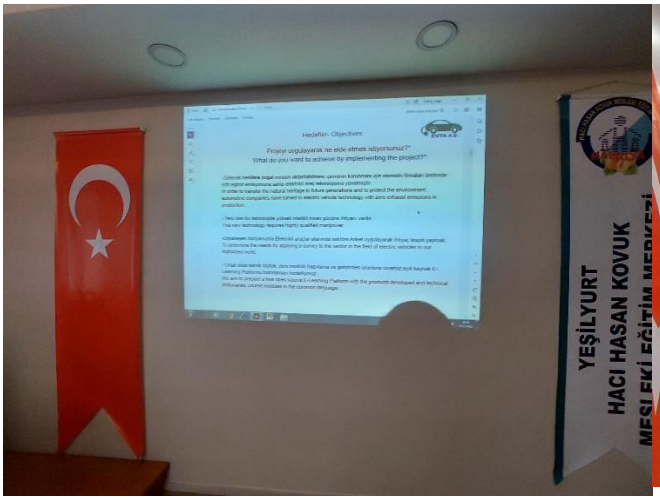
A technical visit was conducted to the Vocational School of Malatya Turgut Özal University, and project activities were shared.

A technical visit was conducted to the Malatya Provincial Directorate of Industry and Technology, and project activities were shared.

Project activities were shared at a meeting attended by senior executives. (Malatya Member of Parliament (former minister), provincial director of national education, district director of national education, chamber presidents, sector representatives)

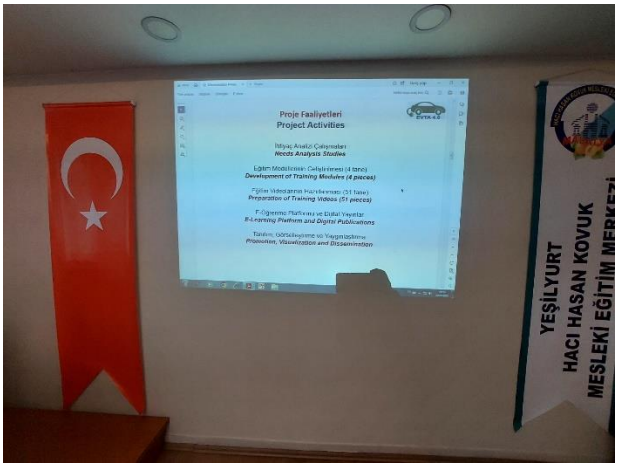
Project Activities Were Shared with the Participation of Sector Representatives and Masters and Apprentices (Activity 1)

Project Activities Were Shared with the Participation of Sector Representatives and Masters and Apprentices (Activity 2)

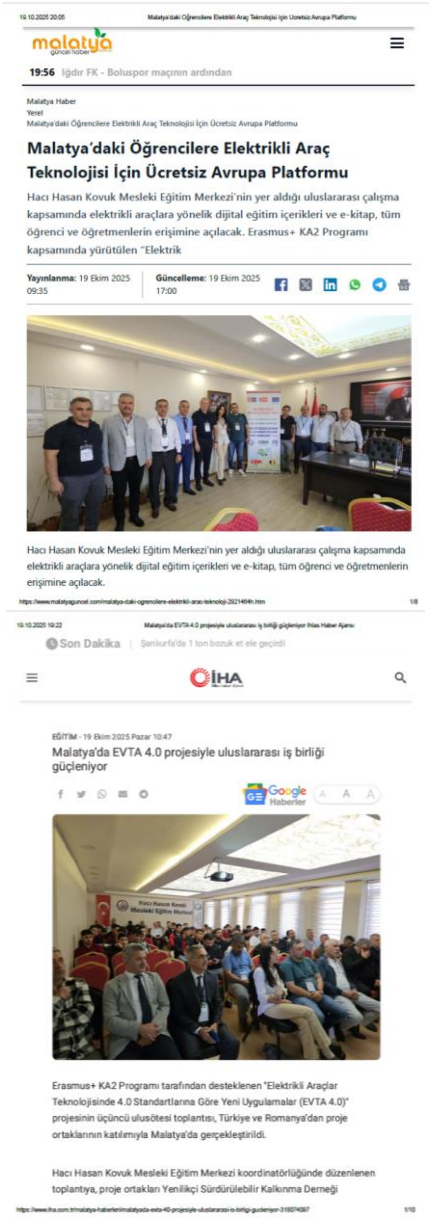


Project Activities Were Shared with the Participation of Sector Representatives and Masters and Apprentices (Activity3)

Project Activities Were Shared with the Participation of Sector Representatives and Masters and Apprentices (Activity 4)



News and social media posts about the Project



Digital news links

https://www.malatyacagdas.com/evta-4-0-projesinde-turkiye-ve-romanya-arasinda-uluslararasi-is-birligi/293183/

https://www.ajansmalatya.com/evta-40-projesi-basladi-elektrikli-araclarda-dijitallesme

https://www.malatyacadde.com/evta-4-0-projesinin-ucuncu-toplantisi-malatya-da-yapildi/103166/?srsltid=AfmBOoqFzof-K1k-AmgbOsTdZaRMafK9K4bBsgZJh3gGJoaZq98C_xgY

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https://www.malatyabirlikgazetesi.com/turkiye-ve-romanya-elektrikli-arac-egitiminde-guclerini-birlestiriyor/25788/

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https://www.haberturk.com/malatya-haberleri/39457876-malatyada-elektrikli-arac-teknolojisi-toplantisi-duzenlendi?utm_source=whatsapp

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https://www.busabahmalatya.com/haber/26614365/haci-hasan-kovuk-mesleki-egitim-merkezinden-elektrikli-araclar-icin-uluslararasi-egitim-hamlesi

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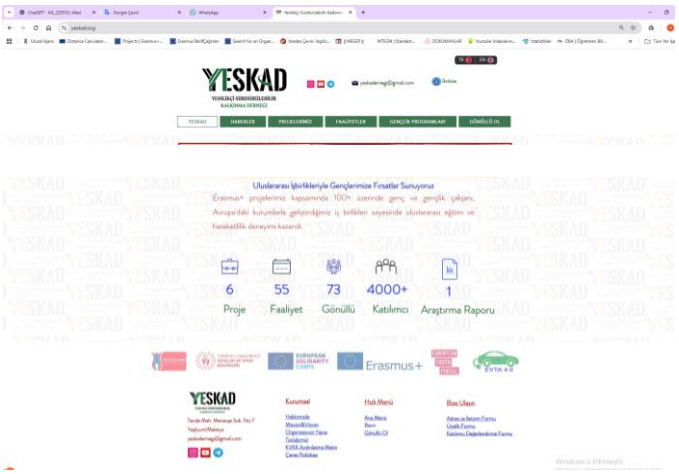
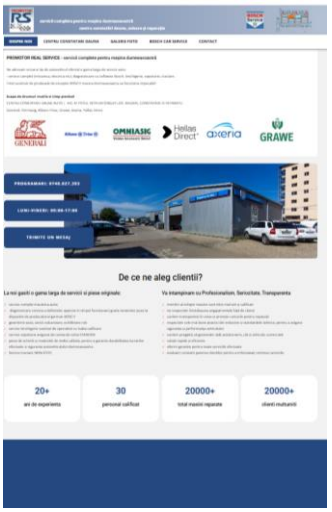
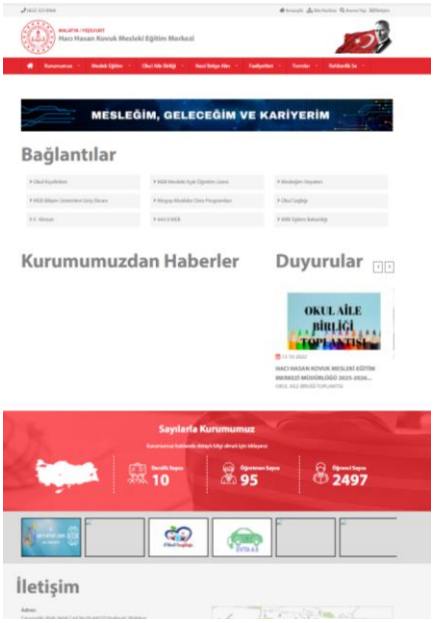
Project news sections on partner institutions' websites



Yenilikci Sürdürülebilir Kalkınma Derneği (TR)



SC PROMOTOR REAL SERVICE SRL (RO)



Hacı Hasan Kovuk Vocational Training Center (TR)

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