



ECO-CAR NEWSLETTER

6th Issue - July 16, 2023, to Jan 15th, 2024

Vocational Training Diploma on Electrical and Hybrid Vehicles / ECO-CAR 2021- 2024

Project Facts

Type: Erasmus+ Programme

Grant Holder: The University of Jordan (UJ)

Duration: 3 Years

Start Date: 15 January 2021

UNDER "ERASMUS+ CAPACITY BUILDING IN THE FIELD OF HIGHER EDUCATION"

Project Profile

ECO-CAR ECO-CAR is a 3-years project that started on the 15th January, 2021 and is co-funded by the Erasmus+ programme of the European Union. It is coordinated by The University of Jordan (UJ) with 13 Jordanian and European partners.

The main objective of ECO-CAR project is to develop a multidisciplinary diploma in the field of Electrical and Hybrid cars as well as to bring together and strengthen the cooperation between companies and HEIs.

The primary purpose of this project is to develop the capacities in the field of Electrical and Hybrid cars in Jordan, and bring together and strengthen the cooperation between companies and HEIs through empowering the engineers with needed skills that meet the market need. This include providing specialized engineers to work in servicing and maintaining EV/HEV companies and also providing the vocational training centers with qualified trainers to graduate qualified technicians that able to meet market needs.

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Joint the Network Follow us on:

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 Eco-Car



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WORK PACKAGES

WP1. Establishing university-enterprise cooperation network

WP2: Baseline Study

WP3: Capacity Building

WP4: Establishment of EV/HEV labs

WP5: Developing ECO-CAR Professional Diploma

WP6: Quality and Impact Evaluation

WP7: Dissemination and Sustainability

WP8: Management

WP1: ESTABLISHING UNIVERSITY-ENTERPRISE COOPERATION NETWORK

Duration: M25 to M30

Lead University: Jordan University of Science and Technology (JUST)

Co-Lead University: Al-Hussein bin Abdullah II Technical University (HTU)

SIGN COLLABORATION AGREEMENTS WITH ENTERPRISES AND TRAINING CENTERS

Long-term agreements and Memorandum of Understandings (MoUs) between universities and enterprises have been signed for internships, hiring graduates, lecturing in university etc. to achieve the benefit for both parties,

During the ECO-CAR Project's lifetime, the signed collaboration was as follows:

- 4 MoUs by UJ
- 1 MoU by JUST
- 1 MoU by MU
- 1 MoU by TTU
- 2 MoUs by BAU
- 2 MoUs by HTU



WP2: BASELINE STUDY

Duration: M1 to M6

Lead University: Applied Science University (ASU)

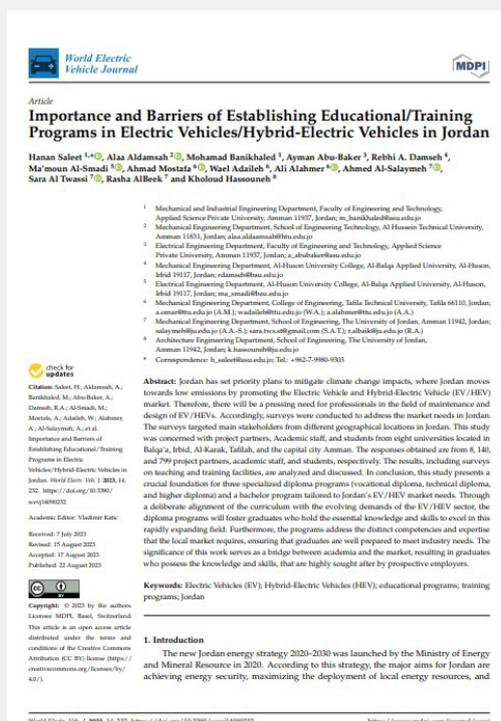
Co-Lead University: Tafila Technical University (TTU), Al-Balqa Applied University (BAU) & Università Degli Studi Dell'Aquila (UNIVAQ)

PUBLISHED SCIENTIFIC PAPER

Based on the 5- survey outcomes and recommendations, a research paper has been prepared by the following partners:

- Applied Science Privet University (ASU),
- Al Hussein Technical University (HTU),
- Al-Balqaa Applied University (BAU),
- Tafila Technical University (TTU),
- The University of Jordan (UJ).

The paper was published on 22nd August 2023 in the international scientific journal “World Electric Vehicle Journal”, a Q2-ranked journal.



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

RWTH-AACHEN UNIVERSITY VISIT TO APPLIED SCIENCE PRIVATE UNIVERSITY

22 of August 2023

The visit took place at the Applied Science Private University, Faculty of Engineering. The faculty dean and the engineering staff welcomed the visitor. The opening included a welcoming word from the faculty dean, followed by introduction about the ECO CAR project presented by Dr. Hanan Saleet. The event included 52 attendees who were students, faculty and staff. The visitors from RWTH presented two workshops:

First workshop: Current and Next-Generation Battery Systems presented by Dr. Florian Ringbeck-RWTH Aachen University-Germany

Second workshop: Bottom-Up Modelling of Batteries, from State-of-the-Art to Novel Technologies Dr. Stephan Bihn--RWTH Aachen University-Germany

The attendees got a huge value from the two workshops. The visitors attended a tour through the faculty of Engineering where they visited the MIT-center fablab and the ECO CAR lab; they admired the advancement in the infrastructure and the up to date devices and equipment that are used in the labs.



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

RWTH-AACHEN VISIT TO ZUJ

22 of August 2023

On August 22, 2023, Al-Zaytoonah University of Jordan hosted an event titled "EU visits- RWTH Aachen University Team to Al-Zaytoonah University of Jordan." Attended by 30 participants from the Faculty of Engineering and Technology, this event served as a pivotal platform for knowledge exchange and collaboration. The event's focal points revolved around cutting-edge advancements in battery technology, with Dr. Florian Ringbeck delivering insights on "Current and Next Generation Battery Systems," and Dr. Stephan Bihn delving into the intricacies of "Bottom-Up Modelling of Batteries, from State-of-the-Arts to Novel Technologies." This gathering symbolized a convergence of expertise, fostering dialogue and innovation at the crossroads of engineering and technology.

Finally, visits to several labs at the university were conducted, to exchange knowledge and experience of both partners (ZUJ and RWTH-AACHEN).



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

RWTH-AACHEN TEAM VISIT TO MU

23 of August 2023

On August 23, 2023, Mutah University hosted an event where 41 participants from the Faculty of Engineering attended. The RWTH-AACHEN team gave lectures on battery technology, featuring talks by Dr. Florian Ringbeck on "Current and Next Generation Battery Systems" and Dr. Stephan Bihn on "Bottom-Up Modelling of Batteries." Participants from Tafila technical university also joined the workshop.



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WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

RWTH-AACHEN TEAM VISIT TO HTU

24 of August 2023

The visit took place at the Al Hussein Technical University (HTU), Faculty of Engineering. The faculty dean and the engineering staff welcomed the visitor. The opening included a welcoming word from the faculty dean, followed by an introduction about the ECO CAR project presented by Prof. Tarek Tutunji. The event included 52 attendees who were students, faculty and staff. The visitors from RWTH presented two workshops:

First workshop: Current and Next-Generation Battery Systems presented by Dr. Florian Ringbeck- RWTH Aachen University-Germany

Second workshop: Bottom-Up Modelling of Batteries, from State-of-the-Art to Novel Technologies Dr. Stephan Bihn--RWTH Aachen University-Germany

The visitors attended a tour through the faculty of Engineering where they visited The faculty labs, engineering workshops and the ECO CAR lab; they admired the advancement in the infrastructure and the up to date devices and equipment that are used in the labs.



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

TRAINING FOR TRAINERS @ UNIVERSITY OF L'AQUILA

11-15 of September 2023

A one-week training activity was organized at University of L'Aquila – Italy focusing on Sustainable Mobility, Internal combustion engines, Electric drives, Vehicle charging facilities. Battery testing, Vehicle connectivity and safety



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

STUDENTS WORKSHOP AT THE UNIVERSITY OF L'AQUILA (UNIVAQ)

22 of September 2023

A Two-weeks training activity was organized at the University of L'Aquila in Italy on 11-22 September 2023, focusing on Sustainable Mobility, Internal combustion engines, Electric drives, Vehicle charging facilities, Battery testing, Vehicle connectivity and safety.



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

TRAINING WORKSHOP FOR TRAINERS @ NATIONAL TECHNICAL UNIVERSITY OF ATHENS – GREECE

25-29 of September 2023

A one-week training activity was organized at the National Technical University of Athens in Greece. The workshop was focused on Vehicle Dynamics and Hybrid and Electric Vehicles basics. Furthermore, two visits were scheduled to local manufacturers. The first took place at the Saracacis Group of Companies and the second at Kaousis S.A.



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

STUDENTS WORKSHOP AT BME

27 of October 2023

A Two-weeks training activity was organized at the Budapest University of Technology and Economics (BME) in Hungary on 16-27 October 2023, focusing on E mobility basics. Electric and hybrid drivetrains. E vehicles in practice. Automotive vehicle systems.



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

MU IN-HOUSE STAFF TRAINING

24 November 2023

Mutah University conducted a training workshop designed for both faculty members and students across multiple departments, including Mechanical Engineering and Electrical Engineering. The core purpose of this workshop was to facilitate the transfer of knowledge and exchange of experiences garnered by the project team during their participation in capacity-building training sessions held in Europe.

Prof. Omar Maaiteh provided an overview of the ECO-CAR project, highlighting its objectives, progress, and anticipated outcomes. He emphasized the significance of the capacity-building workshops and showcased their achievements in advancing expertise within the field.



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS VISIT TO THE UNIVERSITY OF JORDAN

13 of December 2023

As part of ECO-CAR project: Vocational Training Diploma on Electrical and Hybrid Vehicles The University of Jordan Held a training workshop for the staff members and students in the departments of: Mechanical Engineering, Electrical Engineering and Mechatronics Engineering. The workshop aims to transfer the knowledge and share the experience gained by the project team who attended the capacity-building trainings held in Europe.

Prof. Ahmed Al-Salaymeh presented ECO-CAR project in brief. He outlined the project objectives, progress and expected results. He underlined the achievements of the capacity building workshops.



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

BME VISIT TO JUST

14 of December 2023

The visit took place on 14th of December 2023, at Jordan University of Science & Technology, Faculty of Engineering. The opening included a welcoming word from the chairman of the Chemical Engineering department, followed by introduction about the ECO CAR project. The event included 84 attendees who were students, faculty and staff.

Dr. Mate Zoldy's workshop on E-mobility was an incredible experience for all the attendees. With his expertise and knowledge, he provided invaluable insights that will undoubtedly benefit everyone who participated.



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

UJ IN-HOUSE TRAINING

13 of December 2023

As part of ECO-CAR project: Vocational Training Diploma on Electrical and Hybrid Vehicles The University of Jordan Held a training workshop for the staff members and students in the departments of: Mechanical Engineering, Electrical Engineering and Mechatronics Engineering. The workshop aims to transfer the knowledge and share the experience gained by the project team who attended the capacity-building trainings held in Europe. Prof. Ahmed Al-Salaymeh presented ECO-CAR project in brief. He outlined the project objectives, progress and expected results. He underlined the achievements of the capacity building workshops.



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

TTU THIRD IN-HOUSE STAFF TRAINING

19 of December 2023

The Event was held at Tafila Technical University (TTU) based on the training of trainee requirements. The knowledge was transferred to the TTU staff by the ECO-CAR team members who attended the original workshops delivered by Aachen University (Germany), Univaq (Italy) and University of Deusto (Spain). The event was held at the ECO-CAR classroom using the newly received teaching equipment. The attendees background consisted of professors from various disciplines, lab. engineers and technicians. The agenda was well respected and the deliverables were perfectly received and discussed.



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

ASU IN-HOUSE TRAINING

3 of January 2024

In House Training was organized at the Applied Science Private University to transfer the training to our faculty and engineers

In the presentations, various slides highlighted the significant insights acquired by the trainees while attending different workshops in Europe as part of the Eco Car Project



WP3: CAPACITY BUILDING

Duration: M25 to M30

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

HTU IN-HOUSE TRAINING

4 of January 2024

As part of ECO-CAR project: Vocational Training Diploma on Electrical and Hybrid Vehicles, Al Hussein Technical University Held a TOT training workshop for the staff members and students in Mechanical Engineering department and Electrical Engineering department.

The workshop aims to transfer the knowledge and share the experience gained by the project team who attended the capacity building training held at NTUA, TH-OWL and UnivaQ.

Prof. Tarek Tutunji presented ECO-CAR project in brief. He outlined the project objectives, progress and expected results. He underlined the achievements of the capacity building workshops.



WP4:

ESTABLISHMENT OF EV/HEV LABS

Duration: M6 to M21

Lead University: Al-Balqa Applied University (BAU)

Co-Lead University: The University of Jordan (UJ), Jordan University of Science and Technology (JUST)& National Technical University of Athens (NTUA)

EV AND HEV LAB OPENING

14 of November 2023

The opening ceremony for the ECO-CAR Centre at the Applied Science Private University took place on Tuesday, Nov,14th, 2023 with the gracious patronage of His Excellency Dr. Haitham Abdullah Abu Khadija, President of the University and the Deans and staff in the faculties along with several professors, specialists, and individuals interested in the project.

During the ceremony, Prof. Ahmed Al-Salaymeh provided an overview of the project and the center, while Dr Iyad Radwan Dean for the Faculty of Engineering welcomed the esteemed guests.

After tendering process finished, ECO-CAR Centre lab at the Applied Science Private University is fully equipped and operational



WP4:

ESTABLISHMENT OF EV/HEV LABS

Duration: M6 to M21

Lead University: Al-Balqa Applied University (BAU)

Co-Lead University: The University of Jordan (UJ), Jordan University of Science and Technology (JUST) & National Technical University of Athens (NTUA)

ECO-CAR CENTER'S OPENING CEREMONY JUST

14 of December 2023

As part of ECO-CAR project: Vocational Training Diploma on Electrical and Hybrid Vehicles, Jordan University of Science & Technology held the official opening ceremony of the EV and HEV laboratory on Thursday 14/12/2023.

The opening ceremony was sponsored by Professor Munther Kandah, the chair of chemical engineering department and professor Salaheddin Malkawi, the manager of the Consultative Center for Science and Technology and. Prof. Máté Zöldy from Budapest University of Technology and Economics in addition to faculty members from chemical and mechanical engineering department and more than 35 students from JUST attended the ceremony.



WP5:

DEVELOPING ECO-CAR PROFESSIONAL DIPLOMA

Duration: M4 to M34

Lead University: Budapesti Muszaki es Gazdasagtudomanyi Egyetem (BME)

Co-Lead University: The University of Jordan (UJ), Technische Hochschule Ostwestfalen-LIPPE (TH-OWL), Rheinisch-Westfaelische Technische Hochschule Aachen (RWTH Aachen) & Universita Degli Studi Dell'aquila (UNIVAQ)

TUNING WORKSHOP FROM UNIVERSITY OF DEUSTO

14-15 of November 2023

Deliverable 5.5 in the proposal focused on The Tuning Workshop, designed to enhance the quality of teaching for professors across Partner Universities and the development of degree programs.

The tuning workshop took place on November 14th and 15th, 2023, at the Applied Science Private University on the first day and at Al Hussein Technical University on the second day. Dr. Ivan Dyukarev and Dr. Jon García Barrueta beña from the University of Deusto participated in delivering the tuning workshop, where Dr. Ivan participated in person and Dr. Jon virtually. 34 participants attended the workshop in total for the two days.



WP7: DISSEMINATION AND SUSTAINABILITY

Duration: M1 to M36

Lead University: Al Hussein Technical University (HTU)

Co-Lead University: Mutah University (MU), Al-Zaytoonah University of Jordan (ZUJ) & Technische Hochschule Ostwestfalen-LIPPE (TH-OWL)

GRADUATION OF 1ST BATCH OF THE VOCATIONAL DIPLOMA AT UJ

9 of August 2023

The Consultation and Training Center at the University of Jordan celebrated the graduation of the students participating in the vocational diploma programmes.

The Director of the Consultation Center, Dr. Muhammad Al-Muaqaba, congratulated the graduate students and handed them certificates, wishing them progress in their field of work, and achieving the desired benefit from receiving these training diplomas.



WP7:

DISSEMINATION AND SUSTAINABILITY

Duration: M1 to M36

Lead University: Al Hussein Technical University (HTU)

Co-Lead University: Mutah University (MU), Al-Zaytoonah University of Jordan (ZUJ) & Technische Hochschule Ostwestfalen-LIPPE (TH-OWL)

ECO-CAR INFO DAY AT THE ASU

14 of November 2023

The INFO-DAY about ECO-CAR project, was organized at the Applied Science Private University to showcase the vocational Diploma.

The session commenced with an introductory speech by Prof. Ahmed Al-Salaymeh, the Coordinator of the ECO-CAR project. During this address, a concise presentation outlining the project's objectives was delivered to the audience.

Following the introduction, Dr. Mohammad BaniKhalid, Head of the Mechanical and Industrial Engineering Department, emphasized the significance of career-oriented diplomas for students and he presented the achievements of the vocational diploma.



WP7:

DISSEMINATION AND SUSTAINABILITY/ INFO DAY

Duration: M25 to M30

Lead University: Al-Hussein bin Abdullah II Technical University (HTU)

Co-Lead University: MU, ZUJ, TH-OWL

ECO-CAR FINAL CONFERENCE PROJECT

9-10 of January 2024

On the 9th and 10th of January, under the patronage of the Minister of Energy and Mineral Resources, Dr. Saleh Al-Kharabsheh. The University of Jordan held the final conference of the Vocational Training Diploma Project On Electric And Hybrid Vehicles "ECO-CAR", supported by the European Union within the Erasmus Plus program. In a speech given by the Minister's representative, Engineer Yaqoub Murrar, the Director of the Directorate of Renewable Energy and Energy Efficiency, that the project is consistent with the energy sector strategy for the years 2020-2030, which aims to increase the share of renewable energy in the production of electricity, as well as the strategy of shifting toward electric transportation, that aims to contribute to Reducing carbon emissions by 10% by 2030. Obaidat emphasized during the opening ceremony that the project's objectives and results

are in line with the university's aspirations within its strategic plan to develop and build specialized skills. Also The European Union Mission's Director of Energy and Climate Programs, Omar Abu Eid emphasized the significance of the cooperation between the Union and Jordan over the previous 20 years, whether in development or other domains, particularly in the energy and education sectors. In addition to numerous programs whose budgets exceeded 160 million euros in the field of developing renewable energy, the Union also played a role in setting green and renewable energy frameworks and collaborating with the Ministry of Energy since the first strategy was developed in 2007. Asma AlSmadi, the Director of Projects at the Erasmus National Office, discussed the program's influence on Jordan's higher education industry. She pointed out that Jordan had successfully participated in 58 capacity-building projects and had coordinated 19 of them. Highlighting the program's effective role in supporting projects that address the requirements and issues in the field of education. Prof. Ahmed Al-Salaymeh, the project coordinator, presented the goals and achievements of the project led by the University of Jordan, which included the establishment of multiple professional and intermediate diplomas, the holding of many training workshops and meetings with experts, the establishment of private laboratories, the preparation of highly qualified faculty members, engineers and technicians, and the inclusion of 14 partners from Jordanian and European universities.



WP7:

DISSEMINATION AND SUSTAINABILITY/ INFO DAY

Duration: M25 to M30

Lead University: Al-Hussein bin Abdullah II Technical University (HTU)

Co-Lead University: MU, ZUJ, TH-OWL

HAKAMA CERTIFICATE CEREMONY

15 of November 2023

HTU University and its ECO-Car project have targeted Hakama Vocational Training Center- Hybrid Cars program- to enhance their course materials and to upgrade the training quality. In addition, Hakama's students have undergone some short courses conducted by HTU ECO-Car and some local stakeholders such as KIA and JLR. As a result of this training, the students have been certified through a graduation ceremony at HTU campus. Prof. Tarek Tutunji presented the ECO-CAR project at HTU. He outlined the project objectives, progress, and expected results. He underlined the achievements of the capacity-building workshops. Moreover, Prof. Ahmad Alsalaymeh presented the entire ECO-Car project. Eng. Mohammad Al Gharaibeh, the CEO of Vocational Training Corporation, assured the importance of the outcomes of this project in upgrading the students' qualifications in the local workplace.



WP8:

PROJECT MANAGEMENT

Duration: M1 to M36

Lead University: The University of Jordan (UJ)

To ensure an accurate and effective management on a daily basis, a project management team, responsible for financial, operational and day-to-day management and keeping track records of all project activities.

WP Achievements

- One Steering Committee Meeting and two Online Management Meeting were conducted from mid of July 2023 till mid of January 2024
- Regular communication is conducting by e-mail and shared electronic database
- 6th progress report for the whole project lifetime was collected from each WP leader
- A Financial Auditor was appointed
- Started preparing for the Final Report





ONLINE MEETINGS

17th Online Management Meeting
18th Online Management Meeting

THE 17TH ONLINE MEETING

30 of October 2023

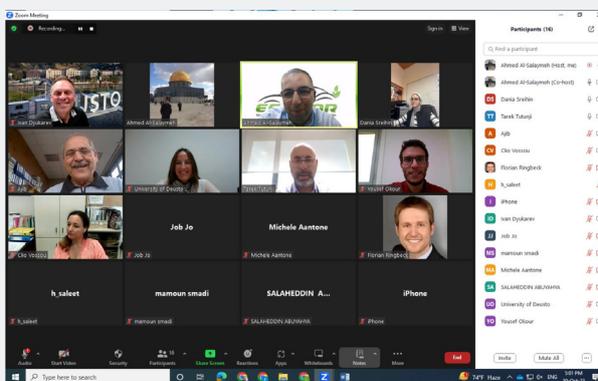
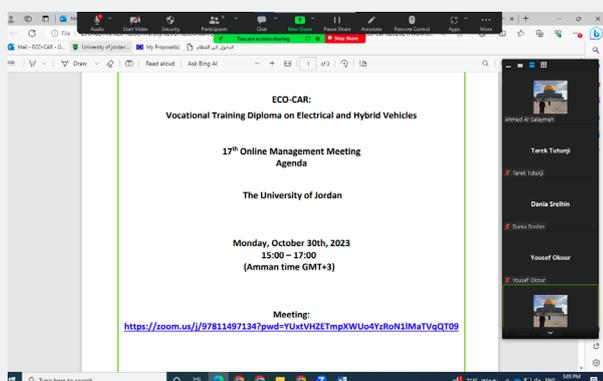
The 17th management meeting was conducted via ZOOM video conferencing on 30th of October 2023 with ECO-CAR Partners to follow up with each work package progress and follow-up with upcoming TOT workshops at EU partners and other follow-ups.

Event Main Objective

The main aim is to follow up with the implementation of ECO-CAR diplomas at each of the Jordanian universities and other follow-ups, with the overall planning and monitoring of the work of the consortium.

Event Main Results and Achievements

- A suggestion that EU partners hold online implementation workshops, instead for those who cannot visit Jordan.
- The WP4 final report is to be submitted before the end of November 2023.
- Preparation for Upcoming Final Conference.
- Evaluation of Diploma and Evaluation of Key project deliverables to be delivered by the end of November 2023.



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THE 18TH ONLINE MEETING

27 of November 2023

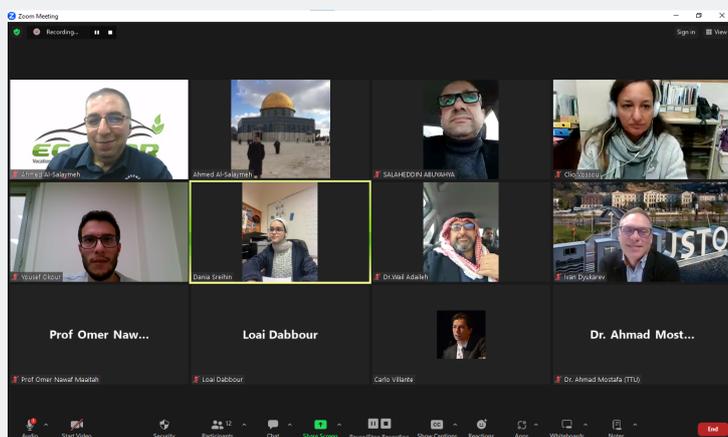
The 18th management meeting was conducted via ZOOM video conferencing on the 27th of November 2023 with ECO-CAR Partners to follow up with each work package progress and follow-up with upcoming TOT workshops at EU partners and other follow-ups.

Event Main Objective

The main aim is to follow up with the implementation of ECO-CAR diplomas at each of the Jordanian universities and other follow-ups, with the overall planning and monitoring of the work of the consortium.

Event Main Results and Achievements

- 2nd Scientific paper to be prepared
- Confirmed dates of EU visits/Online implementation workshops
- Remaining tasks from each partner were specified



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STEERING COMMITTEE AND TECHNICAL AND SCIENTIFIC COMMITTEE MEETINGS

5th Steering Committee (StC) and Scientific Committee Meeting

ECO-CAR 5TH STEERING COMMITTEE (STC) AND SCIENTIFIC COMMITTEE MEETING

5 of September 2023

Event Main Objectives:

- Clarify and work out the detailed plan of the project implementation.
- Engage participants in interactive discussions of their plans for advancing the project implementation.
- Achieve continuous efficient running and progress of the ECO-CAR project.

Event Main Results and Achievements

- Next staff training will take place in UNIVAQ, Italy.
- Next students training will take place in UNIVAQ, Italy.
- Start preparing the 2nd research paper based on the outcomes of ECO-CAR sustainability plan.
- Start preparing for the Student training at BME.
- Start preparing for the EU visits to Jordan.
- Conduct a periodical project performance evaluation.

