

ECO-CAR NEWSLETTER



3rd Issue - January 1, 2022, to July 15, 2022

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:

 ECO- CAR  ECO-CAR Project

 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: PROJECT MANAGEMENT

WP1.

ESTABLISHING UNIVERSITY-ENTERPRISE COOPERATION NETWORK

Duration: M13 to M18

Lead University: JUST

Co-Lead University: MU, HTU, UD

➤ HTU-VISIT HAKAMA

5th of April 2022

Event Main Objectives:

- Understand the capacity of the Hakama's Vocational Center and its equipment.
- Meet the workshop trainers.
- Investigate the possibility of cooperation.

Event Results and Achievements:

- Examined the Hybrid Vehicle car diplomat program at Hakama.
- Viewed the training material.
- Checked the lab readiness and staff skills.
- Established good relationship future cooperation in offering Hybrid-Vehicle Diploma.



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➤ HTU-VISIT AUTOMOTIVE TECHNOLOGY ACADEMY

14th of April 2022

Event Main Objectives:

- Understand the capacity of the workshop and its equipment.
- Meet the workshop trainers.
- Investigate the possibility of cooperation.

Event Results and Achievements:

- Viewing the training material.
- Investigate the lab readiness and Staff skills.
- Achieve a good relation for future cooperation.



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WP3.

CAPACITY BUILDING

Duration: M13 to M18

Lead University: NTUA

Co-Lead University: ASU, BME, RWTH Aachen

➤ ECO-CAR WORKSHOP “EV CHARGING SYSTEMS AND CHARGING INFRASTRUCTURE” BY JUST

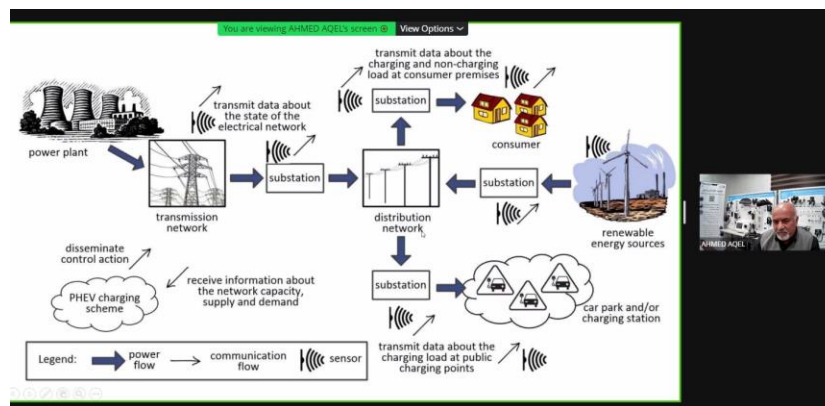
7th of March 2022

Event Main Objectives:

- Build the capacities of the professors who will teach the diploma in the Partner Universities.
- Exchange knowledge and raise awareness to Hybrid and Electric Cars Engineering topics.
- Engage the stakeholders to the ECO-CAR project.
- Disseminate ECO-CAR project objectives and vision.

Event Results and Achievements:

- Professors, engineers, students, technicians, and stakeholders have attended the workshop from local and international parties.
- Networking and exchanging knowledge between industry and academia.
- Expand the ECO-CAR network members.



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➤ ECO-CAR WORKSHOP “MODERN TECHNOLOGY IN THE DIAGNOSING AND MAINTENANCE OF ELECTRIFIED VEHICLES” BY ASU

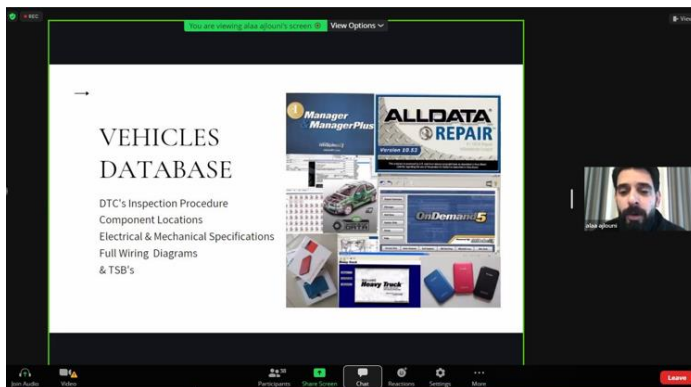
14th of March 2022

Event Main Objectives:

- Build the capacities of the professors who will teach the diploma in the Partner Universities.
- Exchange knowledge and raise awareness to Hybrid and Electric Cars Engineering topics.
- Engage the stakeholders to the ECO-CAR project.
- Disseminate ECO-CAR project objectives and vision.

Event Results and Achievements:

- Professors, engineers, students, technicians, and stakeholders have attended the workshop from local and international parties.
- Networking and exchanging knowledge between industry and academia.
- Expand the ECO-CAR network members.



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➤ ECO-CAR WORKSHOP “ESTIMATING THE IMPACT OF TOPOGRAPHY AND TRAFFIC ON VEHICLE’S ENERGY CONSUMPTION” BY HTU

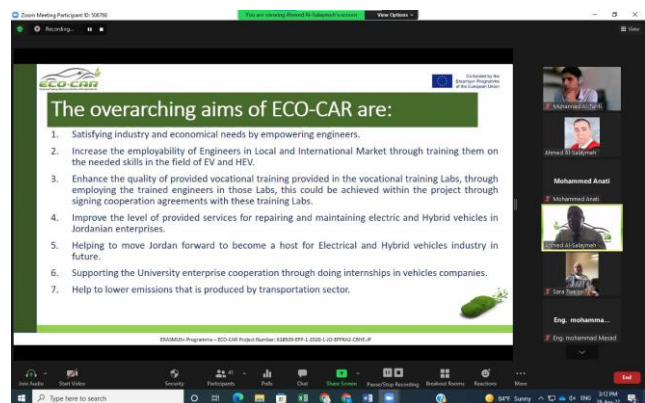
28th of April 2022

Event Main Objectives:

- Build the capacities of the professors who will teach the diploma in the Partner Universities.
- Exchange knowledge and raise awareness to Hybrid and Electric Cars Engineering topics.
- Engage the stakeholders to the ECO-CAR project.
- Disseminate ECO-CAR project objectives and vision.

Event Results and Achievements:

- Professors, engineers, students, technicians, and stakeholders have attended the workshop from local and international parties.
- Networking and exchanging knowledge between industry and academia.
- Expand the ECO-CAR network members.



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➤ TRAINING OF TRAINERS (TOT) BY BME

30th of May 2022 to 3rd of June 2022

Event Main Objectives:

- Build the capacities of the professors who will teach the diploma in the Partner Universities.
- Exchange knowledge and raise awareness to Hybrid and Electric Cars Engineering topics.
- Engage the stakeholders to the ECO-CAR project.
- Disseminate ECO-CAR project objectives and vision.

Event Results and Achievements:

- Professors and engineers have attended the workshop from local parties.
- EV and HEV workshops.
- Trip to Autonomous vehicle (ZalaZONE).
- NVH workshop.



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WP4.

ESTABLISHMENT OF EV/HEV LABS

Duration: M13 to M18

Lead University: BAU

Co-Lead University: UJ, JUST, NTUA

➤ VISIT ECO-CAR LAB IN ASU

28th of March 2022

Event Main Objectives:

Check up the received equipment to set up the needed scientific lab and smart classroom to be used by the students during their diploma study.

The established laboratories will bring on the following activities:

- 1) Assisting teaching of ECO-CAR diploma Students.
- 2) Research, in collaboration with the other faculties and/or industry.
- 3) Vocational training for external experts.
- 4) External services: advice for industries and final users.

The lab will give the students the opportunity to develop various diagnostic strategies involving measurements on an actual EV/HEV system with real voltages under the most stringent safety conditions.

Event Results and Achievements:

- Conduct new center for ECO-CAR equipment at ASU.
- Follow up with the preliminary delivery of ECO-CAR equipment.
- The system gives the students the opportunity to develop various diagnostic strategies involving measurements on an actual HV system with real HV voltages under the most stringent safety conditions.



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➤ EQUIPMENT RECEIVING FOR ECO-CAR LABS

Event Main Objective:

Visits to ECO-CAR Labs in the 8 Jordanian universities were carried out to receive eco-car vocational diploma equipment and devices as shown in the table.

ASU, ZUJ and HTU	4th of July 2022
JUST and BAU	5th of July 2022
TTU and MU	6th of July 2022
UJ	17th of July 2022

At first, three universities in Amman received the equipment on the 4th of July, after which two universities in the north of Jordan received them on 5th of July, then also two universities in the south of Jordan received them on 6th of July, finally, The University of Jordan received them on the 17th of the same month.

Event Results and Achievements:

- Conduct new centers for ECO-CAR equipment at the eight universities.
- Follow up with the delivery of ECO-CAR equipment and devices.
- A list of all equipment received for each university with the serial number.



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WP5.

DEVELOPING ECO-CAR PROFESSIONAL DIPLOMA

Duration: M13 to M18

Lead University: BME

Co-Lead University: TH-OWL, RWTH Aachen, UNIVAQ

➤ EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) ONLINE WORKSHOP

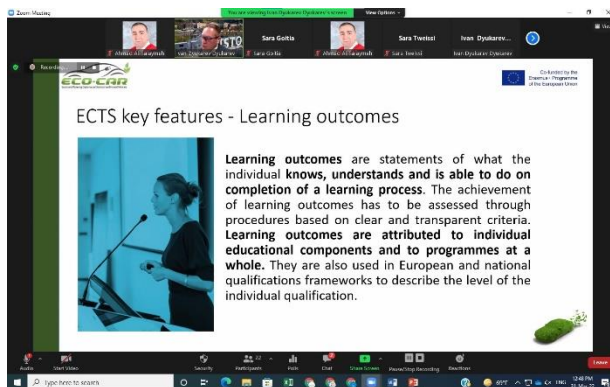
31st of March 2022

Event Main Objectives:

- Provide an overview of ECTS.
- Describe ECTS key features.
- Distribution of ECTS Users' Guide.

Event Results and Achievements:

- A presentation about ECTS and Students' Workload was presented by Dr. Ivan Dyukarev from University of Deusto.
- A presentation about Students' Workload Distribution and Allocation of ECTS Credits: Practical Aspects was presented by Dr. Jon García Barruetabeña from University of Deusto.
- ECTS for ECO-CAR project was set.



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WP6.

QUALITY AND IMPACT EVALUATION

Duration: M13 to M18

Lead University: UD

Co-Lead University: TTU, ZUJ, BME

➤ QUALITY COMMITTEE MEETING

6th of April 2022

Event Main Objectives:

- Provide short overview of WP6 and its progress against the plan.
- Revision of Quality Assurance and Evaluation Plan.
- Distribution of tasks among QC members.

Event Results and Achievements:

- A short analysis will be produced after each meeting, to ensure the possibility to improve the organization of next meetings.
- The internal quality reports of the project will be issued each 6 months instead of annual reports.
- A new questionnaire for face-to-face meetings will be designed and included in the Quality Assurance Plan.
- The venue of the face-to-face meetings will be analyzed in terms of accessibility, logistic, time of the journey, accommodation options, possibility to organize meeting in blended form allowing participants who cannot come to connect online, to facilitate the attendance of the partners.
- A checklist for quality evaluation of courses will be prepared and included in the Quality Assurance Plan.
- The Quality Assurance Plan will be updated by UD, including an action plan for the Quality Assurance activities.

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WP7.

DISSEMINATION AND SUSTAINABILITY

Duration: M13 to M18

Lead University: HTU

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

➤ MU INFO-DAY

28th of March 2022

Event Main Objectives:

- Disseminate the ECO-CAR project.
- Participate in the career day.
- Introduce ECO-CAR project to MU staff, MU students, and guests to the career day.
- Meet representatives from the local society in MU.
- Operating video about the ECO-CAR project.

Event Results and Achievements:

- The project has been introduced on local, national, and international levels.
- Locally, MU staff and students and local representatives have been involved in the event and all queries were answered.
- Nationally, the event occurred during the career day and many local, and national companies, and training centers attended the event. This gave an impression to attract guests from national associations.
- The ECO-CAR team members have listened to the audience and documented their needs to be implemented in the project tasks.



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➤ TTU INFO-DAY

17th of May, 2022

Event Main Objectives:

- Disseminate the ECO-CAR project.
- Introduce ECO-CAR project to TTU staff and students.
- Meet representatives from the local society in Tafila.
- Introduce the ECO-CAR lab to the audience and show its capabilities to serve Tafila locality.

Event Results and Achievements:

- The project has been introduced on local, national and international levels.
- Locally, TTU students and staff got involved in the event and all queries were answered.
- Nationally, the event could attract guests from national associations.
- Two guests from Austria have attended the event and showed high interest in future collaboration with TTU.
- The ECO-CAR team members have listened to the audience and documented their needs to be implemented in the project tasks.



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➤ HTU INFO-DAY

24th of May 2022

Event Main Objectives:

- Disseminate an overview of ECO-CAR Project.
- Market the ECO-CAR program, Vocational diploma.
- Distribution of Promotional Materials for ECO-CAR project among staff members and students.

Event Results and Achievements:

- Provided ECO-CAR information to participants.
- Attracted students' attention.
- Collect contact data of interested students.



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➤ BAU INFO-DAY

26th of July 2022

Event Main Objectives:

- ECO-CAR Centre lab Opening.
- Provide a short overview of ECO-CAR Project and its objectives.
- Distribution of Promotional Materials for ECO-CAR project among staff members and students.
- Give an overview about the ECO-CAR project equipment and its operation.

Event Results and Achievements:

- ECO-CAR Centre lab is fully equipped and operational.
- Staff members and students become familiar with ECO-CAR vocational training diploma on electric and hybrid vehicles.



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WP8:

PROJECT MANAGEMENT

Duration: M13 to M18

Lead University: UJ

Co-Lead University: All other partners



STEERING COMMITTEE AND TECHNICAL AND SCIENTIFIC COMMITTEE MEETINGS

2nd STEERING COMMITTEE AND TECHNICAL AND SCIENTIFIC COMMITTEE MEETING

3rd STEERING COMMITTEE AND TECHNICAL AND SCIENTIFIC COMMITTEE MEETING

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➤ ECO-CAR 2nd STEERING COMMITTEE (STC) AND TECHNICAL AND SCIENTIFIC COMMITTEE MEETING

NTUA, Athens - Greece

10th -12th of March 2022

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 Results and Achievements:

- The three FGs of ECO-CAR project have been presented to the participants to clarify the main aim, target groups, credit hours, and programme learning outcomes of each diploma.
- Follow up with ECO-CAR courses preparations.
- Start preparing for the teaching material for staff workshops (Set outlines, objectives, goals, teaching methods, etc.
- ECO-CAR will conduct online workshops by the Jordanian partners for ECO-CAR network.
- Setup ECO-CAR equipment in center/Lab in the relevant department at each Jordanian university partner.
- Start the accreditation of the diploma/courses by each Jordanian university partner.
- Virtual learning portal for ECO-CAR will be established and host by UJ.
- Update the dissemination committee with new members



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➤ **ECO-CAR 3rd STEERING COMMITTEE (STC) AND TECHNICAL AND SCIENTIFIC COMMITTEE MEETING**

TH-OWL, Hoxter - Germany

30th of June 2022 to 1st of July 2022

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 Results and Achievements:

- Establish Scientific and Quality Committees to check and review the prepared courses
- Start preparing the 2nd research paper based on the outcomes of ECO-CAR surveys.
- Next staff training will take place in RWTH-Aachen in Germany.
- Set a piloting date for the implementation of ECO-CAR diploma at Jordanian partner universities.
- Conduct a periodical project performance evaluation.
- Approve the final version of the Dissemination and Sustainability Plan with the steering committee.



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ONLINE MEETINGS

10th ONLINE MANAGEMENT MEETING
11th ONLINE MANAGEMENT MEETING
12th ONLINE MANAGEMENT MEETING

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➤ 10th ONLINE MANAGEMENT MEETING

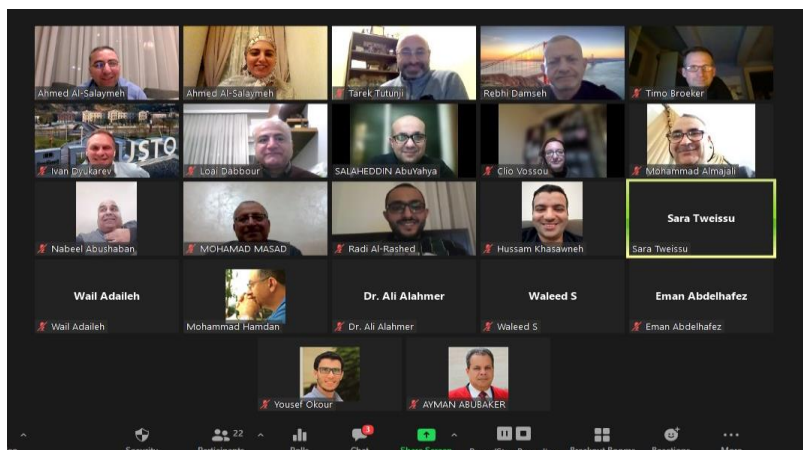
26th of January 2022

Event Main Objective:

Following up with the overall planning and monitoring of the work of the consortium, outline the project objectives, indicators, progress of work packages and their expected results. Also, underlined the achievements of each WP up to date and what is expected from each WP to be achieved in the upcoming months.

Event Results and Achievements:

- The scientific paper has been submitted finalized and submitted to the International Journal of Integrated Engineering
- Online workshop will be presented by JUST University by 07/03/2022
- The equipment's are purchased and to be delivered to local partners
- A committee will be responsible for start preparing for the manual by selecting the experiments titles, objectives, and main theoretical part before receiving the equipment.
- Set a deadline to submit the final version of courses outlines by clusters committees
- Set a deadline to submit the 1st draft of course material by clusters committees
- Provide the clusters committees with ECO-CAR template for preparing the courses content as PPT
- Set a deadline to submit Monitoring Report that evaluating the 1st year of ECO-CAR.
- Start preparing for marketing plan



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➤ 11th ONLINE MANAGEMENT MEETING

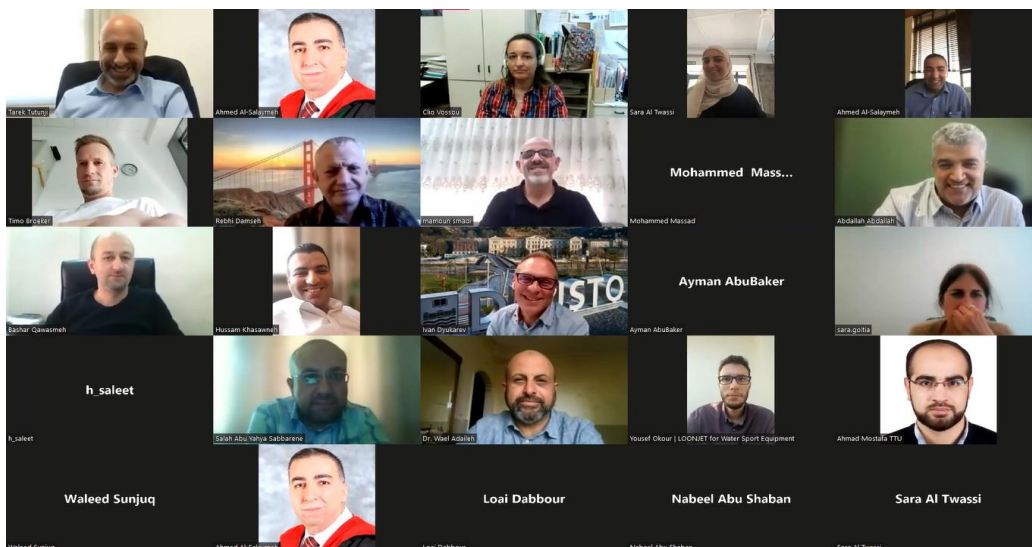
12th of May 2022

Event Main Objective:

The main aim is to follow up with the overall planning and monitoring of the work of the consortium, outline the project objectives, indicators, progress of work packages and their expected results. Also, underlined the achievements of each WP up to date and what is expected from each WP to be achieved in the upcoming months.

Event Results and Achievements:

- Start Preparing for a new scientific paper based on the survey result.
- The equipment are delivered to local partners.
- The final version of courses outlines by clusters committees has been submitted.
- Set a deadline to submit the 2nd draft of course material by clusters committees.
- The 1st training for ECO-CAR staff will take place at the end of May in Budapest at ECO-CAR partner BME University.
- Select the date for the next StC Meeting will be in TH-OWL at Hoxter, Germany.



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➤ 12th ONLINE MANAGEMENT MEETING

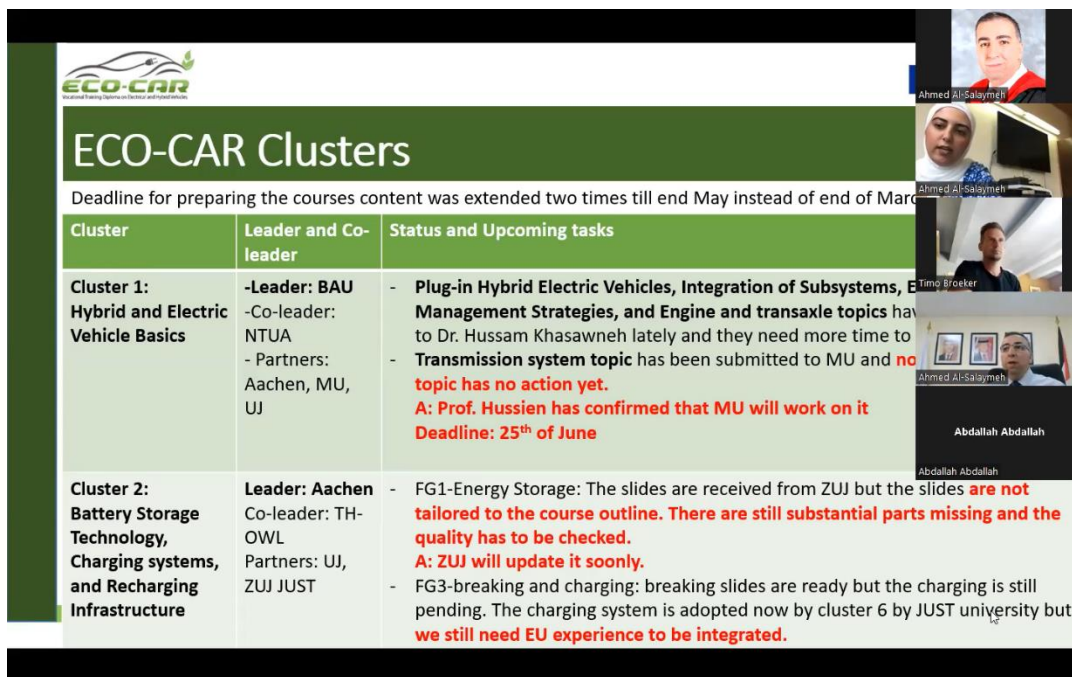
15th of June 2022

Event Main Objective:

The main aim is to follow up with the overall planning and monitoring of the work of the consortium, outline the project objectives, indicators, progress of work packages and their expected results. Also, underlined the achievements of each WP up to date and what is expected from each WP to be achieved in the upcoming months.

Event Results and Achievements:

- Start Preparing for StC Meeting in TH-OWL/ Hoxter.
- The equipment are to be delivered to each lab.
- Training for trainers to use the equipment to be scheduled for each university.
- Set a timeline to submit the clusters' materials.



ECO-CAR Clusters

Deadline for preparing the courses content was extended two times till end May instead of end of March

Cluster	Leader and Co-leader	Status and Upcoming tasks
Cluster 1: Hybrid and Electric Vehicle Basics	-Leader: BAU -Co-leader: NTUA - Partners: Aachen, MU, UJ	- Plug-in Hybrid Electric Vehicles, Integration of Subsystems, Engine and transaxle topics have to Dr. Hussam Khasawneh lately and they need more time to - Transmission system topic has been submitted to MU and no topic has no action yet. A: Prof. Hussien has confirmed that MU will work on it Deadline: 25th of June
Cluster 2: Battery Storage Technology, Charging systems, and Recharging Infrastructure	Leader: Aachen Co-leader: TH-OWL Partners: UJ, ZUJ JUST	- FG1-Energy Storage: The slides are received from ZUJ but the slides are not tailored to the course outline. There are still substantial parts missing and the quality has to be checked. A: ZUJ will update it soonly. - FG3-breaking and charging: breaking slides are ready but the charging is still pending. The charging system is adopted now by cluster 6 by JUST university but we still need EU experience to be integrated.

Participants: Ahmed Al-Salaymeh, Timo Broeker, Abdallah Abdallah

Erasmus+ Programme, ECO-CAR Project Number: 618509-EPP-1-2020-1-JO-EPPKA2-CBHE-JP

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UPCOMING EVENTS

➤ **ECO-CAR STAFF TRAINING WORKSHOP – RWTH AACHEN UNIVERSITY**

This workshop is dedicated to build the capacities of teaching staff at the partner universities to help them to improve the development, delivery and evaluation of teaching material within their universities.

➤ **ECO-CAR PILOTING AT THE JORDANIAN UNIVERSITIES**

The three Diplomas at different universities are to be launched in the next few weeks, launching ceremonies are taking place in each university to introduce the diplomas to the audience.



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