

**ERASMUS+ PROGRAMME**

**Project Number: 618509-EPP-1-2020-1-JO-EPPKA2-CBHE-JP**

**ECO-CAR:**

**Vocational Training Diploma on Electrical and Hybrid Vehicles**

**Minutes of  
6th Online Management Meeting**

**The University of Jordan**

**Amman-Jordan**

**Wednesday, September 8th, 2021**

**17:00 – 19:00**



## Participant List

No.	Participant Name	No.	Participant Name
<b>The University of Jordan</b>			
1.	Prof. Ahmed Al-Salaymeh	2.	Prof. Mohammad Ahmad Hamdan
3.	Prof. Mahmoud Irshidat	4.	Dr. Hussam Khasawneh
5.	Dr. Bashar Qawasmeh	6.	Eng. Mohammad Masad
7.	Eng. Sara Al Twassi	8.	Eng. Rasha Al-Beek
9.	Ms. Hanan Hasan		
<b>Jordan University of Science and Technology</b>			
10.	Eng. Salaheddin Abu Yahya		
<b>Mutah University</b>			
11.	Dr. Saif Alnawaiseh		
<b>Tafila Technical University</b>			
12.	Dr. Ahmed Mostafa	13.	Dr. Wai'l Adaileh
<b>Al-Balqa Applied University</b>			
14.	Prof. Rebhi Damseh	15.	Dr. Mamoun Al-Smadi
<b>Al-Hussein bin Abdullah II Technical University</b>			
16.	Prof. Amjad Al Fahoum	17.	Eng. Yousef Okour
18.	Eng. Waleed Sunjuq		
<b>Applied Science University</b>			
19.	Dr. Mohammad Bani-Khaled	20.	Dr. Hanan Saleet
21.	Eng. Alaa Aldaamsa		
<b>Al-Zaytoonah University of Jordan</b>			
22.	Dr. Loai Dabbour	23.	Eng. Eman Abdelhafez
24.	Dr. Nabeel Abu Shaban		
<b>Technische Hochschule Ostwestfalen-LIPPE</b>			
25.	Prof. Salman Ajib	26.	Dr. Sabine Brunklaus



**Universidad de la Iglesia de Deusto Entidad Religiosa**

27.	Ivan Dyukarev		
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### Minutes of the Meeting

The sixth management meeting was conducted via zoom video conferencing due to the global crisis, Corona Virus.

The meeting started by a welcome speech from the Project Coordinator and viewing the agenda of the meeting by Prof. Ahmed Al-Salaymeh.

#### ECO-CAR Project in Brief

Prof. Ahmed Al-Salaymeh presented ECO-CAR project in brief. He outlined the project objectives, indicators, progress of work packages and their expected results. Prof. Al-Salaymeh has underlined the achievements of each WP up to date and what is expected from each WP to be achieved in the upcoming months. The overall plans are as follow:

#### WP1: Establishing university-enterprise cooperation

**Duration: M1 to M36**

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

**Co-Lead University: Mutah University (MU), Al-Hussein bin Abdullah II Technical University (HTU) & Universidad de la Iglesia de Deusto Entidad Religiosa (UD)**

#### Overall Plan:

Number	Plan	Duration
1	Proactively identify and seek out network members from different locations.	M1
2	Provide the network members with the needed information about the project aims and activities.	M1
3	Prepare a registration form.	M1
4	Creating a Network of Community Support professionals, potential funders and investors and other stakeholders. The Network members will be involved in different activities of the project.	M5
5	Conduct meetings with enterprises to include them in the design and implementation of the project, to understand stakeholders' interests, concerns and culture.	M5
6	Organise workshops and seminars to exchange information.	M6-M36

<b>7</b>	Sign collaboration agreements with enterprises and training centres to let the students make their internships.	<b>M6</b>
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**Eng. Salaheddin Abu Yahya (JUST)** presented the progress of this work package, registration form as two versions are prepared (Arabic and English) to accommodate with the mother language of the target sector, and the number of registered members in the network since the collected responses are stated below:

Jordanian Partners	Number of network members registered	Remained number of network members to be registered	European Partners	Number of network members registered	Remained number of network members to be registered
UJ	13	0	TH-OWL	1	3
JUST	10	0	UD	3	1
TTU	10	0	NTUA	5	0
BAU	8	2	RWTH-Aachen	0	4
MU	9	1	UNIVAQ	0	4
HTU	9	1	BME	0	4
ASU	5	5	<b>Total</b>	<b><u>9 members</u></b>	<b><u>16 members</u></b>
ZUJ	2	8			
<b>Total</b>	<b><u>66 members</u></b>	<b><u>17 members</u></b>			

And agreed on the following:

No.	Task	Responsibility	Deadline
1	More stakeholders are needed from Jordanian partners: ZUJ, ASU, HTU, MU, BAU	ZUJ, ASU, HTU, MU, BAU	<b>Last deadline 30.09.2021</b>
2	More stakeholders are needed from EU partners: BME, UNIVAQ, Aachen, TH-OWL, UD	BME, UNIVAQ, Aachen, TH-OWL, UD	<b>Last deadline 30.09.2021</b>
4	Sign collaboration agreements with enterprises and training centres for internships, hiring graduates, lecturing in university etc. to achieve the benefit for both parties.	All partners	Before the end of the 1st year

5.	Update the “Networking Report” with the outcomes of the networking workshop at UJ and UNIVAQ workshop	Wp Leader and Co-Leader	30.09.2021
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## WP 2: Baseline Study

**Duration: M1 to M6**

**Lead University: Applied Science University (ASU)**

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

### Overall Plan:

Number	Plan	Duration
1	WP leader will set a detailed plan for the WP.	M1
2	WP leader will design the four surveys in coordination with WP5 leader and submit them to be approved by Technical Committee.	M2
3	Partners will circulate the surveys to the target groups.	M2
4	Co-leaders will analyze the responses under the leader supervision and generate one report.	M4
5	Other WP's will be based on generated results of this surveys.	M5
6	Progress report to be provided by WP leader every 6 months based on collected feedback from Co-Leaders.	M6

**Dr. Mohammad Bani Khaled (ASU)** presented the progress of this work package and the action plan. And agreed on the following:

No.	Task	Responsibility	Deadline
1.	Final version of the report has been submitted and approved by all partners and stakeholders.	WP leader and scientific committee	submitted
2.	Start for preparing the scientific paper based on the survey analysis results. The WP leader will conduct an online meeting with the partners who would like to participate in to distribute the tasks.	WP leader	20.09.2021

### WP 3: Capacity Building

**Duration: M5 to M33**

**Lead University: National Technical University of Athens (NTUA)**

**Co-Lead University: Applied Science University (ASU), Rheinisch-Westfaelische Technische Hochschule Aachen (RWTH Aachen) & Budapesti Muszaki es Gazdasagtudomanyi Egyetem (BME)**

#### Overall Plan:

Number	Plan	Duration
1	WP leader will set a detailed plan for the WP.	M5
2	WP leader will set selection criteria for the workshops.	M5
3	Workshop topics will be matching the hosting university expertise (Topics in electrical and hybrid vehicles and how to prepare and teach e-courses): <ul style="list-style-type: none"> <li>a. (6) Training workshops in 5 EU countries for (90) academic and technical staff, (M7, M10, M13, M16, M19, M21).</li> <li>b. (1 or 2) Training workshop in 3 or 4 EU countries for (24) students in Europe, (M30-M33).</li> <li>c. (8) Technology-enhanced (In-house) teacher training for (600) staff member.</li> </ul>	M7-M33
4	Progress report to be provided by WP leader every 6 months based on collected feedback from Co-Leaders.	

Eng. Sara Al Twassi (UJ) presented the progress of Capacity Building Plan work package and the action plan. The selection of online workshops and physical workshops (conducted by EU) dates and subjects were presented as following:

Table 1: Physical Workshops

Dates	Host Universities
January 2022	RWTH
March 2022	TH-OWL
May 2022	BME
4 – 8 July 2022	UD
5 – 9 September 2022	UNIVAQ
26 – 30 September 2022	NTUA

Table 2: Online Workshops

Universities	Subject	DATES
RWTH	Battery Technology, charging safety and Recharge infrastructure - <b>COMPLETED</b>	June 2021
UNIVAQ	Internal combustion engines in hybrid vehicles / Well to wheel LCA Calculation - <b>SCHEDULED</b>	13 September 2021
TH-OWL	<b>Automotive electricity, Electronics, Sensors and Actuators</b>	<b>Latest of Dec.</b>
NTUA	Dynamics of vehicle, active and passive safety	5 November 2021
BME	Internal combustion engines in hybrid vehicles / Dynamics of vehicle, active and passive safety	November 2021
UD	Vibroacoustic Comfort in Road Vehicles	2 December 2021

Following were agreed on:

No.	Task	Deadline
1.	UD has selected the workshop dates to be on 4 – 8 July 2022	Accomplished
2.	TH-OWL changed their online workshop subject and dates to be on the latest of December	Latest of Dec.
3.	Next online workshop will be by NTUA	05.11. 2021
4.	Submit updated “Capacity Building Plan” report	30.09.2021

#### WP 4: 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)**

#### Overall Plan:

Number	Plan	Duration
1	WP leader will set a detailed plan for the WP.	M2
2	Prepare a list of main components in ECO-CAR centers.	M2
3	WP leader and co-leaders will set the list of needed equipment based on WP2.	M4



4	Central Tender is published.	M10
5	Center is fully equipped and operational.	M18
6	Center establishment.	M21
7	Progress report to be provided by WP leader every 6 months based on collected feedback from Co-Leaders.	

**Prof. Rebhi Damseh (BAU)** presented the progress of this work package and the action plan. And was agreed on:

No.	Task	Responsibility	Due Date
1.	The tendering process is now in the level of starting studying the submitted offers.	UJ	
2.	Prof. Rebhi asked from the partners to provide him with the location of centers to host the equipment.	All partners	30.09.2021
3.	Start preparing for the manual.	WP leader	Before the end of the 1 <sup>st</sup> year
4.	UJ has started the process of hosting the server	UJ	01.11.2021

## 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)**

**Overall Plan:**

Number	Plan	Duration
1	WP leader will set a detailed plan for the WP with due dates.	M4-M6
2	Courses selection based on WP2 results.	M7
3	WP leader will prepare a course outline template with learning outcomes.	M8
4	Creation of committees responsible to develop the selected courses.	M9
5	Diploma accreditation.	M12
6	Tuning Workshop.	M15
7	Courses are developed.	M20
8	Piloting phase.	M16-M34
9	Progress report to be provided by WP leader every 6 months based on collected feedback from Co-Leaders.	

**Prof. Ahmed Al- Salaymeh** briefly discussed the progress of this work package and the action plan for the courses clustering based on the last courses list that were approved by the stakeholders. And followed were agreed on:

#	Task	Responsibility	Due Date
1.	Detailed work plan to develop diploma study plan and course description based on baseline study deliverables.	Focus groups	Submitted by each focus group
2.	The 3 focus groups have submitted their courses lists and the short description of the courses and were approved by the partners and stakeholders.	Focus groups	Accomplished
3.	Accreditation of the diploma/courses will be done during the first year to avoid the delays and risks	Local partners	Deadline is 14.01.2022
6.	A meeting was conducted with the focus groups at UJ to start the courses clustering process.	Local partners	Accomplished
7.	WP leader will prepare a study plan template with learning outcomes	WP leader and co-leaders	30.09.2021 -URGENT
8.	Preparing a course outline template include ECTS component and learning outcomes	WP leader and co-leaders	30.09.2021-URGENT
9.	A total of 9 clusters were created and distributing the courses among the clusters with the responsible team members.	UJ	Accomplished

The attached excel file has the full details for the courses clustering (team for each cluster, clusters classification. Also, you can reach it online through this link:

[https://docs.google.com/spreadsheets/d/1JDJ4ox4911dxQ\\_GF7DD75UINwTEBC5\\_v/edit?usp=sharing&oid=103480218674595258682&rtpof=true&sd=true](https://docs.google.com/spreadsheets/d/1JDJ4ox4911dxQ_GF7DD75UINwTEBC5_v/edit?usp=sharing&oid=103480218674595258682&rtpof=true&sd=true)

## WP6: Quality and Impact Evaluation

**Duration:** M1 to M36

**Lead University:** Universidad de la Iglesia de Deusto Entidad Religiosa (UD)

**Co-Lead University:** Tafila Technical University (TTU), Al-Zaytoonah University of Jordan (ZUJ) & Budapesti Muszaki es Gazdasagtudományi Egyetem (BME)

### Overall Plan:

Number	Plan	Duration
1	Quality committee will be formed during the kick off meeting.	M1
2	WP leader will set a detailed plan for the WP with due dates.	M2

3	WP leader will prepare online evaluation links for all meetings, workshops and circulate them to partners after each event, and the results will be analyzed by the co-leaders.	M2
4	WP leader will prepare the Quality assurance tools.	M5
5	WP leader will prepare online evaluation links for all piloted courses, and circulate them to partners, and the results will be analyzed by the partners.	M10
6	Courses will be peer reviewed against a developed checklist.	M12
7	External evaluator will be appointed by WP leader.	M12
8	Progress report to be provided by WP leader every 6 months based on collected feedback from Co-Leaders.	

Also, Dr. Ivan Dyukarev presented the progress of Quality and Impact Evaluation Plan work package and the action plan for the next stages, and following were agreed on:

No.	Task	Responsibility	Due Date
1.	Evaluate the meeting	UJ	During the meeting
2.	An email will be sent to the project officer to select the EE.	UD, UJ, Quality committee	30.09.2021
3.	Collect feedback on the Quality Assurance and Evaluation Plan	co-leaders, Quality and Scientific Committee	30.09.2021

## WP7: Dissemination and Sustainability

**Duration: M1 to M36**

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

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

### Overall Plan:

Number	Plan	Duration
1	Dissemination committee will be formed during the kick off meeting.	M1
2	Project website will be designed, hosted and managed by University of Jordan.	M1
3	Facebook page will be created and managed by University of Jordan.	M1
4	Promotional Materials will be designed by Work Package leader.	M2
5	WP leader will set a detailed plan it will include plans for Dissemination, Sustainability and Networking.	M3
6	E-Learning platform will be created and managed by University of Jordan.	M12



7	Tester courses workshops and will be organized in Jordan.	M18
8	A three-day Final dissemination conference will be held at University of Jordan.	M35
9	Progress report to be provided by WP leader every 6 months based on collected feedback from Co-Leaders, the report will cover all Work packages.	

**Prof. Amjad Al Fahoum** discussed the progress of Dissemination and Sustainability Plan work package and the action plan for the next stages, and following were agreed on:

No.	Task	Responsibility	Due Date
1.	HTU has submitted the 1 <sup>st</sup> draft of the 1st newsletter and will submit the final version.	HTU	Extended to 23.09.2021
2.	Collect feedback on the Dissemination and Sustainability plan	Co-leaders, Quality and Scientific Committee	30.09.2021
3.	Submit the progress report	WP Leader	23.09.2021

## WP8: Project Management

**Duration: M1 to M36**

**Lead University: The University of Jordan (UJ)**

### Overall Plan:

Number	Plan	Duration
1	A Steering Committee (SC) will be established during the kick-off meeting part 2 with 1 representative from each partner.	M1-M36
2	A Technical and Scientific Committee (TSC) will be established during the kick-off meeting part 2.	M1-M36
3	6 coordination meetings will be conducted in Amman (KOM), Budapest, Aachen, Athens, Deusto and Amman (FC).	M1-M36
4	Monthly virtual status meetings via web-conferencing.	M1-M36
5	Regular communication will be conducted by e-mail and shared electronic database.	M1-M36
6	Progress report will be prepared every six months.	M1-M36

**Prof. Ahmed Al-Salaymeh** presented the progress of each work package and what is needed from partners, as tasks and activities of Project Management work package and the action plan for the next stages, and was agreed on:



No.	Task	Responsibility	Due Date
1.	The progress report has to be submitted by HTU.	All partners	23.09.2021
2.	Regulations will be sent to the StC and TSC to collect signatures.	UJ	30.09.2021
3.	Schedule the 7th online management meeting.	UJ	04.10.2021 3 pm Amman time
4.	Schedule the upcoming steering committee meeting at BME - Budapest	UJ	During December

Finally, Prof. Ahmed Al-Salaymeh thanked all participants in the conducted online meeting.

#### **Meeting Recording:**

Topic: ECO-CAR 6th Management Meeting

Date: Sep 8, 2021 04:55 PM Amman

Meeting Recording:

[https://zoom.us/rec/share/f1zChwG0Nlp1oQ8VO1gPPZzTwu3igan-BgYg7U\\_hk8EyPmy1mj8sVpm8pWuodS7G.0sELtLt1NZ\\_DrjgA](https://zoom.us/rec/share/f1zChwG0Nlp1oQ8VO1gPPZzTwu3igan-BgYg7U_hk8EyPmy1mj8sVpm8pWuodS7G.0sELtLt1NZ_DrjgA)

Access Passcode: AJ=n3VT=

#### **Meeting Evaluation Link:**

[https://docs.google.com/forms/d/e/1FAIpQLSezPLN2PnJRpHwR5I9gs4uXs85xDmfas9VvwqeT0huEzwWwwA/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSezPLN2PnJRpHwR5I9gs4uXs85xDmfas9VvwqeT0huEzwWwwA/viewform?usp=sf_link)



## Group Photo

