

ERASMUS+ PROGRAMME

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

ECO-CAR:

Vocational Training Diploma on Electrical and Hybrid Vehicles

Steering and Scientific Committees Meeting

Agenda

National Technical University of Athens (NTUA)

March 10th – 11th 2022

Thursday – Friday

Location: <https://goo.gl/maps/7ymfKfD1hEDSMq2y9>

ZOOM link: <https://zoom.us/j/91594737064>



Participants List

Name	Institution
Prof. Ahmed Al-Salaymeh	The University of Jordan
Prof. Mohammad Hamdan	The University of Jordan
Eng. Rasha Al-Baik	The University of Jordan
Eng. Sara Al Twassi	The University of Jordan
Prof. Suhail kiwan	Jordan University of Science and Technology
Eng. Salaheddin Abu Yahya	Jordan University of Science and Technology
Prof. Omer Maaitah	Mutah University
Prof. Mohammad Almajali	Mutah University
Prof. Mohammad Saraireh	Mutah University
Dr. Saif AlNawayseh	Mutah University
Dr. Wa'el Adaileh	Tafila Technical University
Dr. Ahmad Mostafa	Tafila Technical University
Prof. Rebhi Damseh	Al- Balqa' Applied University
Dr. Mamoun Al-Smadi	Al- Balqa' Applied University
Prof. Naser Abdellatif	Applied Science Private University
Prof. Abdullah Abdullah	Al Hussein Technical University
Prof. Tarek Tutunji	Al Hussein Technical University
Dr. Loai Dabbour	Al-Zaytoonah University of Jordan
Dr. Nabeel Abu Shaban	Al-Zaytoonah University of Jordan
Eng. Eman AbdelHafez	Al-Zaytoonah University of Jordan
Prof. Salman Ajib	Technische Hochschule Ostwestfalen-LIPPE (TH-OWL)
Mr. M.Sc. Timo Broeker	Technische Hochschule Ostwestfalen-LIPPE (TH-OWL)
Stephan Bihn	Rheinisch-Westfaelische Technische Hochschule Aachen (RWTH-Aachen)
Florian Ringbeck	Rheinisch-Westfaelische Technische Hochschule Aachen (RWTH-Aachen)
Dr. Ivan Dyukarev	Universidad de la Iglesia de Deusto Entidad Religiosa (UD)
Sara Goitia Ubierna	Universidad de la Iglesia de Deusto Entidad Religiosa (UD)
Jon Garcia Barruetabeña	Universidad de la Iglesia de Deusto Entidad Religiosa (UD)
Dr. Máté Zöldy	Budapesti Muszaki es Gazdasagtudományi Egyetem (BME)
Eng. Adam Nyerges	Budapesti Muszaki es Gazdasagtudományi Egyetem (BME)
Prof. Dimitrios Koulocheris	National Technical University of Athens (NTUA)
Dr. Clio Vossou	National Technical University of Athens (NTUA)
Prof. Michele Anatone	Universita Degli Studi Dell'aquila (UNIVAQ)
Dr. Marco Calabrese	Universita Degli Studi Dell'aquila (UNIVAQ)



First Day
Thursday, March 10th, 2022
09:00 –19:30

09:00 - 09:30 Registration

Session 1

Chairman: Dr. Clio Vossou
Moderator: Eng. Rasha Al-Beek

09:30 - 09:45 **Brief Welcome by Project General Coordinator and Local Organization at NTUA, by:**
Prof. Dimitrios Koulocheris, ECO-CAR Project Coordinator at NTUA
Prof. Ahmed Al-Salaymeh, ECO-CAR General Project Coordinator, The University of Jordan

09:45 - 10:00 **Introducing Participants**

10:00-10:45 **Overall Progress of Eco-Car Project, by:**
Prof. Ahmed Al-Salaymeh, The University of Jordan

10:45–11:00 **Coffee Break**

Session 2

Chairman: Prof. Ahmed Al-Salaymeh
Moderator: Eng. Sara Tweissi

11:00-11:30 **ECO-CAR Focus Groups (FGs)**

Time	Partner Name	Presenter
11:00 – 11:10	Focus Group 1 (Professional Diploma)	Prof. Suhail kiwan - JUST
11:10 - 11:20	Focus Group 2 (Community College Diploma)	BAU: Prof. Rebhi Damseh Dr. Mamoun Al-Smadi TTU: Dr. Wa’el Adaileh Dr. Ahmad Mostafa
11:20 - 11:30	Focus Group 3 (Vocational Diploma)	Prof. Tarek Tutunji - HTU Eng. Rasha Al-Beek - UJ

11:30-11:45 Cluster 1: Hybrid and Electric Vehicle Basics

Presented by: Prof. Rebhi Damseh, Dr. Ma'moun Al-Smadi, and Dr. Clio Vossou

- ✓ Courses outlines
- ✓ Courses content
- ✓ Upcoming tasks and challenges
- ✓ Timeline to submit the cluster material

Cluster 1: Hybrid and Electric Vehicle Basics	
Focus Group 1 (Professional Diploma)	Introduction to Automotive Engineering (Introduction to Hybrid and Electric Vehicles)
Focus Group 2 (Community College Diploma)	Hybrid and Electric Vehicle Technology
Focus Group 3 (Vocational Diploma)	Hybrid and Electric Vehicles Systems

University	Role	Name of Responsible Members
BAU	Leader	Prof. Rebhi Damseh and Dr. Ma'moun Al-Smadi
NTUA	Co-Leader	Dr. Clio Vossou
Aachen	Partner	Mr. Stephan Bihn
MU	Partner	Dr. Hussien Al-Majali
UJ	Partner	Dr. Bashar Qawasmeh

11:45-12:00 Cluster 2: Battery Storage Technology, Charging systems, and Recharging Infrastructure.

Presented by: Eng. Florian Ringbeck and Prof. Salman Ajib

- ✓ Courses outlines
- ✓ Courses content
- ✓ Upcoming tasks and challenges
- ✓ Timeline to submit the cluster material

Cluster 2: Battery Storage Technology, Charging systems, and Recharging Infrastructure	
Focus Group 1 (Professional Diploma)	1- Energy Storage and Energy Management 2- Power Electronics and Charging Systems
Focus Group 2 (Community College Diploma)	N.A
Focus Group 3 (Vocational Diploma)	Braking and Charging System

University	Role	Name of Responsible Member
Aachen	Leader	Eng. Florian Ringbeck
TH-OWL	Co-Leader	Prof. Salman Ajib & Dr. Sabine Brunklaus
UJ	Partner	Dr. Bashar Qawasmeh & Dr. Hussam Khasawneh
ZUJ	Partner	Dr. Nabeel Abu Shaban
JUST	Partner	Eng. Salaheldeen Abu Yahya

12:00-12:10 Cluster 3: Electric and Hybrid Vehicles Diagnosis for Maintenance and Repair

Presented by: Dr. Wael Adaileh

- ✓ Courses outlines
- ✓ Courses content
- ✓ Upcoming tasks and challenges
- ✓ Timeline to submit the cluster material

Cluster 3: Electric and Hybrid Vehicles Diagnosis for Maintenance and Repair	
Focus Group 1 (Professional Diploma)	N.A
Focus Group 2 (Community College Diploma)	Malfunction Diagnostics and Repair in Hybrid and Electric Vehicles
Focus Group 3 (Vocational Diploma)	N.A

University	Role	Name of Responsible Member
TTU	Leader	Dr. Wael Adaileh and Dr. Ali Alahmer
HTU	Co-Leader	Eng. Alaa Aldaamseh
BAU	Partner	Dr. Mamoun Al-Smadi
Aachen	Partner	Eng. Florian Ringbeck

12:10-12:30 Cluster 4: Internal Combustion Engines in Hybrid Vehicles

Presented by: Eng. Adam Nyerges and Dr. Mohammed Almajali

- ✓ Courses outlines
- ✓ Courses content
- ✓ Upcoming tasks and challenges
- ✓ Timeline to submit the cluster material

Cluster 4: Internal Combustion Engines in Hybrid Vehicles	
Focus Group 1 (Professional Diploma)	Internal Combustion Engine
Focus Group 2 (Community College Diploma)	Internal Combustion Engine
Focus Group 3 (Vocational Diploma)	1- Internal Combustion Engine 2- Cooling & Lubrication Systems

University	Role	Name of Responsible Member
BME	Leader	Eng. Adam Nyerges
MU	Co-Leader	Dr. Mohammed Almajali
JUST	Partner	Prof. Suhail Kiwan
HTU	Partner	Engr. Waleed Sunjuq
UNIVAQ	Partner	Prof. Michele Anatone
UJ	Partner	Prof. Mohammad Hamdan and Dr. Mohammed Alrbai

12:30-13:00 Cluster 5: Automotive Electricity, Electronics, Sensors, and Actuators

Presented by: Prof. Tarek A. Tutunji and Eng. Eman Abdelhafez

- ✓ Courses outlines
- ✓ Courses content
- ✓ Upcoming tasks and challenges
- ✓ Timeline to submit the cluster material

Cluster 5: Automotive Electricity, Electronics, Sensors, and Actuators	
Focus Group 1 (Professional Diploma)	Automotive Electronic, Electrical, and Sensing Systems
Focus Group 2 (Community College Diploma)	1- Electrical and Electronics Circuits 2- Electrical and Electronic Systems in Vehicles
Focus Group 3 (Vocational Diploma)	1- Sensors 2- Basic Electricity and Electronics

University	Role	Name of Responsible Member
HTU	Leader	Prof. Tarek A. Tutunji
ZUJ	Co-Leader	Eng. Eman Abdelhafez
TTU	Partner	Dr. Wael Adaileh + Dr. Ahmad Mostafa
BME	Partner	Dr. Máté Zöldy
UJ	Partner	Eng. Mohamad Masad

13:00-13:30 Cluster 6: Vehicle Dynamics

Presented by: Dr. Jon Garcia Barruetaña

- ✓ Courses outlines
- ✓ Courses content
- ✓ Upcoming tasks and challenges
- ✓ Timeline to submit the cluster material

Cluster 6: Vehicle Dynamics	
Focus Group 1 (Professional Diploma)	1- Powertrain Integration in HEVs 2- Vehicle Dynamics
Focus Group 2 (Community College Diploma)	Vehicle Engineering
Focus Group 3 (Vocational Diploma)	1- Powertrain Systems 2- Steering & Suspension Systems 3- Braking and Charging System

University	Role	Name of Responsible Member
UD	Leader	Jon García-Barruetaña
ASU	Co-Leader	Dr. Mohammad Bani Khaled
UNIVAQ	Partner	Dr. Carlo Villante
NTUA	Partner	Dr. Clio Vossou
JUST	Partner	Eng. Qatada Damra



TTU	Partner	Dr. Wael Adaileh + Dr. Ahmad Mostafa
UJ	Partner	Dr. Hussam Khasawneh & Dr. Hashem Alkhaldi

13:30-14:30 Lunch and Group Photo

Session 3

Chairman: Prof. Mohammed Hamdan

Moderator: Dr. Ma'moun Al-Smadi

14:30-14:40 Cluster 7: Health and Safety

Presented by: Dr. Mohammad Almajali

- ✓ Courses outlines
- ✓ Courses content
- ✓ Upcoming tasks and challenges
- ✓ Timeline to submit the cluster material

Cluster 7: Health and Safety	
Focus Group 1 (Professional Diploma)	N.A
Focus Group 2 (Community College Diploma)	N.A
Focus Group 3 (Vocational Diploma)	Safety in Hybrid and Electric Vehicles

University	Role	Name of Responsible Member
MU	Leader	Dr. Mohammad Almajali
UNIVAQ	Co-Leader	Dr. Carlo Villante
BAU	Partner	Dr. Ma'moun Al-Smadi
ZUJ	Partner	Dr. Loai Dabbour
BME	Partner	Dr. Árpád TÖRÖK
UJ	Partner	Eng. Otba Al-Oran

14:40-15:00 Cluster 8: Electrical Machines and Drives

Presented by: Prof. Salman Ajib and Mr. Timo Broeker

- ✓ Courses outlines
- ✓ Courses content
- ✓ Upcoming tasks and challenges
- ✓ Timeline to submit the cluster material

Cluster 8: Electrical Machines and Drives	
Focus Group 1 (Professional Diploma)	1- Electrical Machines and Drives 2- Power Electronics and Charging Systems
Focus Group 2 (Community College Diploma)	Electrical Machines and Drives
Focus Group 3 (Vocational Diploma)	Control Systems



University	Role	Name of Responsible Member
TH-OWL	Leader	Prof. Salman Ajib
ASU	Co-Leader	Prof. Ayman Abu Baker
HTU	Partner	Dr. Muhannad Al-Tarifi
BAU	Partner	Dr. Ma'moun Al-Smadi
UJ	Partner	Prof. Dia Abu Alnadi

15:00-15:30 Cluster 9: Labs & Workshops

Presented by: Prof. Rebhi Damseh, Dr. Ma'moun Al-Smadi, and Dr. Wail Adaileh

- ✓ Courses outlines
- ✓ Courses content
- ✓ Upcoming tasks and challenges
- ✓ Timeline to submit the cluster material

Cluster 9: Labs & Workshops	
Focus Group 1 (Professional Diploma)	1- Introduction to Automotive Engineering (Introduction to Hybrid and Electric Vehicles) Workshop 2- Internal Combustion Engine Workshop 3- Electrical Machines and Drives Workshop 4- Powertrain Integration in HEVs Workshop 5- Power Electronics and Charging Systems Lab 6- Energy Storage and Energy Management Lab 7- Automotive Electronic, Electrical, and Sensing Systems Lab 8- Vehicle Dynamics Lab
Focus Group 2 (Community College Diploma)	1- Hybrid and Electric Vehicle Workshop 2- Workshop of Electrical and Electronic Systems in Vehicles 3- Malfunction Diagnostics and Repair in Hybrid and Electric Vehicles Workshop 4- Vehicle Engineering workshop 5- Internal Combustion Engine Lab



		6- Electrical Machines and Drives Lab																								
		7- Electrical and Electronics Circuits Lab																								
Focus Group 3 (Vocational Diploma)		1- Hybrid and Electric Vehicles Systems Workshop																								
		2- Sensors Lab																								
		3- Braking and Charging System Workshop																								
		4- Powertrain Workshop																								
		5- Internal Combustion Engine Workshop																								
		6- Steering & Suspension Systems Workshop																								
		7- Cooling & Lubrication Systems Workshop																								
		8- Basic Electricity and Electronics Lab																								
		9- Braking and Charging System Workshop																								
		10- Safety in Hybrid and Electric Vehicles Workshop																								
				11- Control Systems Lab																						
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15:30-15:45	Coffee Break																									
<p>Session 4 <i>Chairman: Prof. Rebhi Damseh</i> <i>Moderator: Eng. Salheddin Abu Yahya</i></p>																										
15:45-16:15	<p>WP5: Developing ECO-CAR Professional Diploma Plan, by Dr. Máté Zöldy</p> <ul style="list-style-type: none"> ✓ Status and process of developing ECO-CAR diploma courses ✓ Upcoming tasks ✓ Monitoring and Evaluation Plan 																									



16:15 -17:30 **WP3: Capacity Building Plan, by Prof. Dimitrios Koulocheris, NTUA**

16:15-16:30

- ✓ Status of the Training Workshops in Europe for staff and students
- ✓ Selection criteria for staff training
- ✓ Training material
- ✓ Upcoming Tasks

Training Workshops in EU Partners: (16:30-17:30)

- ✓ Workshop dates
- ✓ Workshop title and contents
- ✓ Workshop outcomes

Time	University	Presenter
16:30-16:40	Technische Hochschule Ostwestfalen-LIPPE (TH-OWL)	Prof. Salman Ajib Mr. M.Sc. Timo Broeker
16:40-16:50	Rheinisch-Westfaelische Technische Hochschule Aachen (RWTH-Aachen)	Stephan Bihn Florian Ringbeck
16:50-17:00	Universidad de la Iglesia de Deusto (UD)	Dr. Ivan Dyukarev Sara Goitia Ubierna
17:00-17:10	Budapesti Muszaki es Gazdasagtudományi Egyetem (BME)	Dr. Máté Zöldy Eng. Adam Nyerges
17:10-17:20	National Technical University of Athens (NTUA)	Prof. Dimitrios Koulocheris Dr. Clio Vossou
17:20-17:30	Universita of L'Aquila	Prof. Michele Anatone Dr. Marco Calabrese

17:30-18:00 **Discussion and Conclusions**

18:00-19:30 **Workshop for Jordanian Partners**

- ✓ Discuss the application of ECO-CAR diplomas at each university
- ✓ Discuss courses status for each university (current courses, new courses, to be updated, to be injected) for ECO-CAR diplomas
- ✓ Selection of staff members/university to participate in training workshops
- ✓ Prepare PPT for the 2nd day to present the outputs

19:30 **End of the 1st day**

Second Day
Friday, March 11th, 2022
09:00 – 19:30

09:00-09:30 Registration

Session 5

Chairman: Prof. Suhail Kiwan
Moderator: Eng. Sara Tweissi

09:30-09:40 Introduction Speech and Instructions, by:
Dr. Clio Vossou, NTUA

09:40-11:40 Workshop Outputs for Jordanian Partners

- ✓ Discuss the application of ECO-CAR diplomas at each university
- ✓ Discuss courses status for each university (current courses, new courses, to be updated, to be injected) for ECO-CAR diplomas
- ✓ Selection of staff members/university to participate in training workshops
- ✓ Name of the department where the diploma will be settled.
- ✓ Work plan for ECO-CAR diploma accreditation

Time	Partner Name	Presenter
09:40 - 09:55	The University of Jordan (UJ)	Prof. Mohammed Hamdan
09:55 - 10:10	Jordan University of Science and Technology (JUST)	Prof. Fahmi Abu AlRub Eng. Salaheddin Abu Yahya
10:10 - 10:25	Mutah University (MU)	Prof. Omer Maaitah Dr. Mohammad Almajali
10:25 - 10:40	Tafila Technical University (TTU)	Dr. Wa'el Adaileh Dr. Ahmed Mustafa
10:40 - 10:55	Al-Balqa Applied University (BAU)	Prof. Rebhi Damseh Dr. Mamoun Al-Smadi
10:55 – 11:10	Al-Hussein bin Abdullah II Technical University (HTU)	Prof. Tarek Tutunji Dr. Emad Abdel Salam
11:10 – 11:25	Applied Science University (ASU)	Prof. Naser Abdellatif
11:25 – 11:40	Al-Zaytoonah University of Jordan (ZUJ)	Dr. Loai Dabbour Dr. Nabeel Abu Shaban

11:40-12:00 Coffee Break

Session 5

Chairman: Prof. Tarek Tutunji
Moderator: Sara Goitia Ubierna

12:00-12:15 **WP1:** Establishing university-enterprise cooperation Plan, by **Prof. Fahmi Abu Al-Rub, Eng. Salaheddin Abuyahya, JUST**

- Status of Eco-Car network
- Work plan for enhancing network in Eco-Car project
- Upcoming tasks



12:15-12:30 **WP2: Baseline Study Plan, by Dr. Ahmed Mustafa (TTU), Dr. Mamoun Al-Smadi (BAU) & Dr. Marco Calabrese (UNIVAQ)**

- Status of the research paper
- Work plan for new research paper
- Upcoming tasks

12:30-12:45 **WP4: Establishment of EV/HEV labs Plan, by Prof. Rebhi Damseh & Prof. Ahmed Al-Salaymeh**

- EV/HEV centres at JO institutions (location, infrastructure, activities)
- Upcoming tasks

12:45-13:30 **Visit to NTUA Labs**

13:30-14:30 **Lunch**

Session 7

Chairman: Dr. Mohammad Almajali

Moderator: Eng. Sara Tweissi

14:30-15:00 **WP6: Quality and Impact Evaluation Plan by Dr. Ivan Dyukarev, UD**

- ✓ Status of quality and impact evaluation
- ✓ EE tasks
- ✓ Upcoming tasks

15:00-15:30 **WP7: Dissemination and Sustainability Plan, by Prof. Tarek Tutunji, HTU**

- ✓ ECO-CAR Newsletter
- ✓ ECO-CAR Website
- ✓ Marketing Plan
- ✓ Upcoming tasks

15:30-16:00 **WP8: Project Management Plan, by Prof. Ahmed Al-Salaymeh, UJ**

- ✓ Establishment of Management and Operational Structures and running the project
- ✓ Financial Management
- ✓ Reporting (Progress, Intermediate and Final Reports)
- ✓ Upcoming Meetings

16:00-16:15 **Coffee Break**

Session 8

Chairman: Prof. Omar Maaitah

Moderator: Eng. Sara Tweissi

16:15-17:00 **Activities ECO-CAR Upcoming Work plan, by: Prof. Ahmed Al-Salaymeh, The University of Jordan**

17:00-17:30 **Conclusion of the 2 days and summary of the upcoming tasks for ECO-CAR work packages**

17:30-18:00 **Closing and Summary of the Meeting**



ERASMUS+ PROGRAMME
Project Number: 618509-EPP-1-2020-1-JO-EPPKA2-CBHE-JP

ECO-CAR:
Vocational Training Diploma on Electrical and Hybrid Vehicles

Workshop for
Project Implementation by Partner Universities in Jordan

Agenda
National Technical University of Athens (NTUA)

Saturday, March 12th 2022

09:00-16:00



Saturday, March 12th, 2022

09:30 – 16:00

09:00 - 09:30 Registration

Workshop

Project Implementation Presentations by Partner Universities in Jordan

Chairman: Prof. Ahmed Al-Salaymeh

Moderator: Eng. Sara Tweissi

09:30 - 15:00 Project Implementation Presentation by Partner Universities in Jordan (each university 30 mins) covering the following topics:

- ✓ ECO-CAR team at partner university
- ✓ Achievements in networking
- ✓ Achievement in WP5 (final list of courses, Accreditation process, ECO-CAR offered courses each semester)
- ✓ Courses piloting and implementation reports
- ✓ ECO-CAR Centre/ Lab at partner university for equipment procurement, installation place and usage (supported with photos)
- ✓ Conducted dissemination activities and info days
- ✓ Conducted quality activities (submitted progress reports)
- ✓ Future vision and upcoming tasks

Time	Partner Name	Presenter
9:30 – 10:00	The University of Jordan (UJ)	Prof. Mohammed Hamdan Dr. Hussam Khasawneh
10:00 – 10:30	Jordan University of Science and Technology (JUST)	Prof. Fahmi Abu AlRub Eng. Salaheddin Abu Yahya
10:30 – 11:00	Mutah University (MU)	Prof. Omer Maaitah Dr. Mohammad Almajali
11:00 – 11:30	Tafila Technical University (TTU)	Dr. Wa'el Adaileh Dr. Ahmed Mustafa
11:30 – 11:50	Coffee Break	
11:50 – 12:20	Al-Balqa Applied University (BAU)	Prof. Rebhi Damseh Dr. Mamoun Al-Smadi
12:20 – 12:50	Al-Hussein bin Abdullah II Technical University (HTU)	Prof. Tarek Tutunji
12:50 – 14:00	Lunch	
14:00 – 14:30	Applied Science University (ASU)	Prof. Naser Abdellatif
14:30 – 15:00	Al-Zaytoonah University of Jordan (ZUJ)	Dr. Loai Dabbour Dr. Nabeel Abu Shaban

15:00 - 15:30 Discussion

15:30 - 16:00 Workshop Conclusion and Summary

16:00 Group Photo and Wrap Up