

Al Hussein Technical University (HTU) online workshop- Report

Event type	Workshop
WP Number	WP3, WP7
WP Leader	NTUA, HTU
Event date	28-04-2022
Number of Participants	56
Total number of pages	6

Project Coordinator

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1 Event Description

Al Hussein Technical University (HTU) from Jordan conducted an online workshop on 28th of April 2022. The 1-hour workshop was conducted via ZOOM and titled “Estimating the Impact of Topography and Traffic on Vehicle’s Energy Consumption”.

The workshop started with a welcoming speech and an overview of the nature of the project, its objectives and the partners working on it by the project coordinator, Prof. Ahmed Al-Salaymeh from The University of Jordan.

- “Vehicle Energy Calculations” by: Dr. Muhannad Al-Tarifi.

A discussion panel was opened for participants.

2 PPTs

- ECO-CAR in brief:

https://fisjo-my.sharepoint.com/:p/g/personal/eco-car_ju_edu_jo/EdeJusSfSIBEqkDkacOg89UBzGJoVtEkvmdq5o5wZAKbfA?e=C3acx0

3 Poster



جامعة الحسين التقنية
Al Hussein Technical University

ECO-CAR Workshop

Estimating the Impact of Topography and Traffic on Vehicle's Energy Consumption

Presented by: Al Hussein Technical University (HTU)



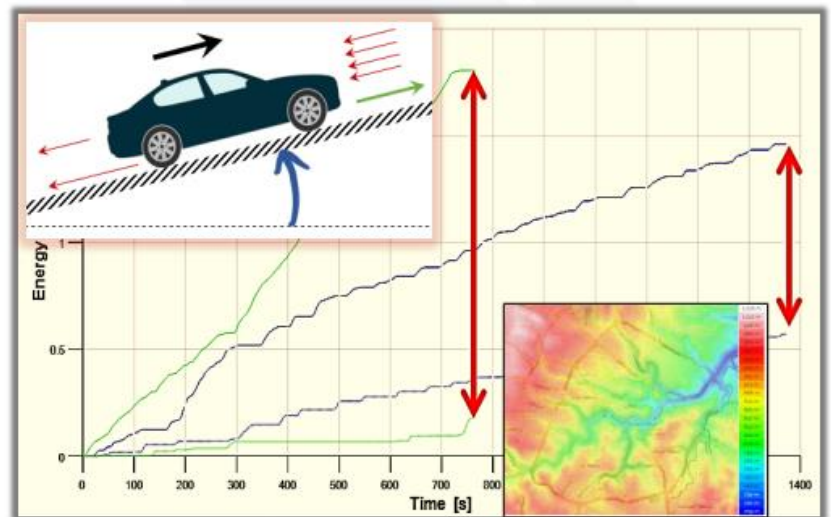
Thursday, April 28, at 15:00 (Amman time)

14:45-15:00 : Registration

15:00-15:15: Welcoming Speech, by:
Prof. Ahmed Al-Salaymeh, General Project
Coordinator at The University of Jordan

15:15-16:00 : Vehicle Energy Calculations

16:00-16:15 : Discussion and Closing



Presenter: Dr. Muhannad Al-Tarifi, Al Hussein Technical University (HTU)



4 ZOOM participants list

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

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5 Photos

Zoom Meeting Participant ID: 506768 You are viewing Ahmed Al-Salaymeh's screen View Options

Recording... [Icons]

Ahmed Al-Salaymeh Ahmed Al-Salaymeh Eng. mohamma... Eng. mohammad Ma... Bashar Qawasmeh Dr Aktham Yasin Dr Aktham Yasin


Participants (33)
Find a participant

A... (Host, me, participant ID
Ahmed Al-Salaymeh (Co-ho
Ahmed Al-Salaymeh (Co-ho
AA Abdallah Alatawneh
Abdelrahman Azzuni
AB Ahmad Badran
Ahmad Mostafa
AM Akram Musa
AT Anna Tozzi
Bashar Qawasmeh
DA Dr Aktham Yasin
EA Eman Abdelhafez
EM Eng. mohammad Masad
FD Ferenc Dömötör
Florian Ringbeck
HH Hanan Hassan
LA Lailak Al-Kahachi


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Join Audio Start Video Security Participants 33 Polls Chat Share Screen Pause/Stop Recording Reactions More End

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ECO-CAR Partners




Co-funded by the
Erasmus+ Programme
of the European Union


**1. The University of Jordan
(Project Coordinator)**





**3. Jordan University of
Science and Technology**




2. Mutah University




**4. Tafila Technical
University**



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



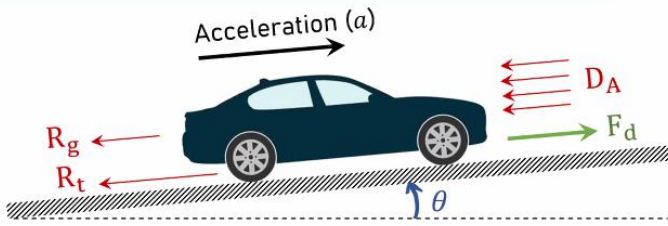
Co-funded by the Erasmus+ Programme of the European Union

Drive Power


The drive power can be calculated in N-m/s (or W) as: $P_d = F_d \times v$

Or, in kW: $P_d = F_d \times \frac{v}{1000}$

$$P_d = \frac{v}{1000} \left[Mg \sin \theta + Mg f_r + \frac{1}{2} \rho_{\text{air}} C_D A v^2 + M \frac{dv}{dt} \right]$$



$t \equiv$ time [s]
 $v \equiv$ velocity [m/s]
 $a \equiv$ acceleration [m/s²]
 $M \equiv$ vehicle's mass [kg]
 $g \equiv$ gravitational acceleration [m/s²]
 $\theta \equiv$ road grade [radians]
 $f_r \equiv$ tire rolling resistance coefficient []
 $\rho_{\text{air}} \equiv$ air mass density [kg/m³]
 $C_D \equiv$ aerodynamic drag coefficient []
 $A \equiv$ frontal area of the vehicle [m²]



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Slide 6



Mohammad Al-Tarifi

Mohammad Al-Ash

Sara Tweissi

Sara Tweissi

Tarek Tutunji

Tarek Tutunji

Wail Adailleh

Wail Adailleh

6 Video

https://www.youtube.com/watch?v=_8ikrpEGfFM&t=1433s