

University of L'Aquila (UNIVAQ) online workshop- Report

Event type	Workshop
WP Number	WP3, WP7
WP Leader	NTUA, HTU
Event date	05-11-2021
Number of Participants	154
Total number of pages	8

Project Coordinator

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Project website: <http://sites.ju.edu.jo/en/ECO-CAR/Home.aspx>



1 Event Description

National Technical University of Athens (NTUA) from Greece conducted the workshop on 5th of November 2021. The 2-hours workshop was conducted via ZOOM and titled “Dynamics of Vehicle, active and passive safety”.

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.

- "The Role of Vehicle Dynamics in Ground Vehicles Development" by: Associate Prof. D. Koulocheris, NTUA
- “Introduction to Applications for Vehicle Dynamics: TruckSim" by: Dr.-Ing. Clio Vossou, NTUA

A discussion panel was opened for participants to ask the lecturers

2 Poster



ECO-CAR Workshop

Vehicle Dynamics Fundamentals

Presented by: NTUA - Greece



Friday, November 05, 15:00-17:00 PM (Amman time)

14:45 - 15:00 : Registration

15:00 - 15:10 : Welcoming Speech, by:
Prof. Ahmed Al-Salaymeh, General Project
Coordinator at The University of Jordan

15:10 - 16:00 : "The Role of Vehicle
Dynamics in Ground Vehicles Development"
by: Assoc. Prof. D. Koulocheris, NTUA

16:00 - 16:50 : " Introduction to Applications
for Vehicle Dynamics: TruckSim"
by: Dr.-Ing. Clio Vossou, NTUA

16:50 - 17:00 : Discussion and Closing



Join us & Register here:
<https://bit.ly/3BB3Sgx>

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3 ZOOM participants list

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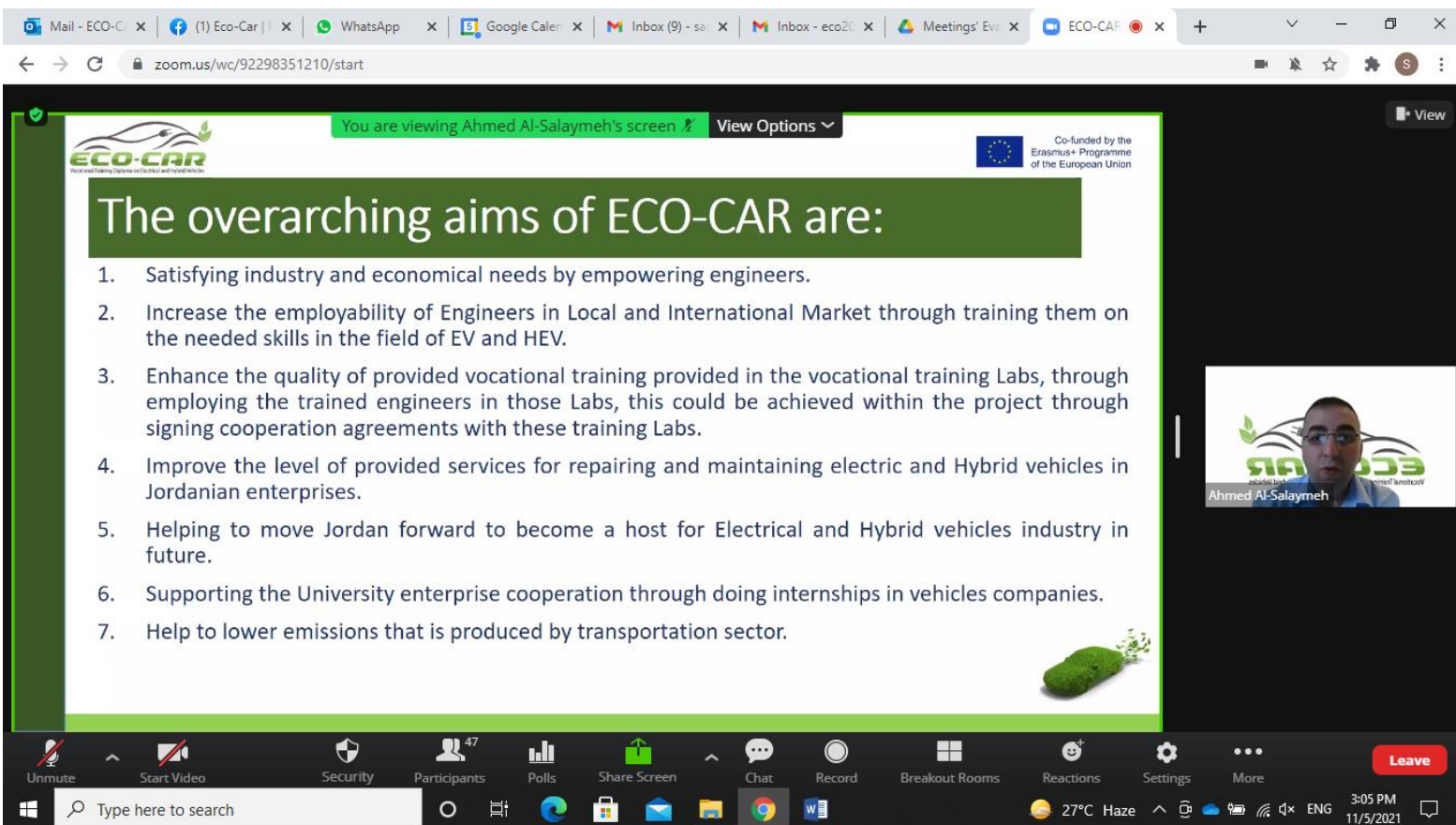
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4 Photos



The screenshot shows a Zoom meeting interface. The main content is a slide titled "The overarching aims of ECO-CAR are:" with a list of seven points. The slide also features the ECO-CAR logo and the Erasmus+ logo. A small video window in the bottom right corner shows a participant named Ahmed Al-Salaymeh. The Zoom control bar at the bottom includes options like Unmute, Start Video, Security, Participants (47), Polls, Share Screen, Chat, Record, Breakout Rooms, Reactions, Settings, More, and a red Leave button. The Windows taskbar at the very bottom shows the search bar, task view, and various application icons.

The overarching aims of ECO-CAR are:

1. Satisfying industry and economical needs by empowering engineers.
2. Increase the employability of Engineers in Local and International Market through training them on the needed skills in the field of EV and HEV.
3. Enhance the quality of provided vocational training provided in the vocational training Labs, through employing the trained engineers in those Labs, this could be achieved within the project through signing cooperation agreements with these training Labs.
4. Improve the level of provided services for repairing and maintaining electric and Hybrid vehicles in Jordanian enterprises.
5. Helping to move Jordan forward to become a host for Electrical and Hybrid vehicles industry in future.
6. Supporting the University enterprise cooperation through doing internships in vehicles companies.
7. Help to lower emissions that is produced by transportation sector.

REC You are viewing Dimitrios Koulocheris's screen REC View Options

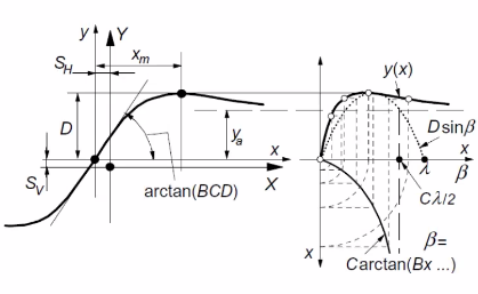
Magic Formula – General Form

$y = D \sin[C \arctan\{Bx - E(Bx - \arctan Bx)\}]$

with
 $Y(X) = y(x) + S_Y$
 $x = X + S_H$

where
 Y : output variable F_x, F_y or possibly M_z
 X : input variable $\tan\alpha$ or κ

and
 B stiffness factor
 C shape factor
 D peak value
 E curvature factor
 S_H horizontal shift
 S_Y vertical shift



Pacejko, H. (2005). *Tire and vehicle dynamics*. Elsevier.

05/11/2021 Online Training Workshop: Vehicle Dynamics Fundamentals (NTUA)


Vehicles Laboratory

Dimitrios Koulocheris
Dimitrios Koulocheris

REC You are viewing Clio Vossou's screen REC View Options

Mechanical Simulation Corporation Software

- Multi-body dynamics
- Simulation & Analysis of the dynamic behavior of motor vehicles in response to steering, braking, and acceleration control inputs



05/11/2021 Online Training Workshop: Vehicle Dynamics Fundamentals (NTUA)

Vehicles Laboratory

Clio Vossou
Clio Vossou



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