



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

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

NTUA TOT Workshop

Date: 25-29/09/2023

Agenda



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



NTUA Workshop (In a glance)

Lessons

- Hybrid and Electric Heavy Vehicle Basics
- EV & HEV Technology and hazardous material
- Dynamics of vehicle, active and passive safety

Laboratory

- Vehicle dynamic measurements
- Vehicle modeling using Matlab
- Vehicle modeling using TruckSim

Visits Local Manufacturer of heavy vehicle's superstructures

Training Day

Period	Time
1	09:00 – 10:30
Break	10:30 – 10:45
2	10:45 – 12:15
Lunch Break	12:15 – 13:00
3	13:00 – 14:30
Break	14:30 – 14:45
4	14:45 – 16:15

Day 1

Monday, 25/09/2023

Period	Time	Subject
1	09:00 – 10:30	Welcome – NTUA - VLab
Coffee break	10:30 – 10:45	Coffee / Tea break
2	10:45 – 12:15	Introduction to Vehicle Dynamics
Lunch Break	12:15 – 13:00	Lunch (Restaurant & Canteens)
3	13:00 – 14:30	Suspension Systems
Coffee break	14:30 – 14:45	Coffee / Tea break
4	14:45 – 16:15	Overview of Hybrid and Electric Heavy Vehicles

Day 2

Tuesday, 26/09/2023

Period	Time	Subject
1 & 2	09:30 – 12:00	Visit to Saracakis group of Companies https://www.saracakis.gr/en/
3	13:00 – 14:15	Steering System
4	14:30 – 15:15	Tire Mechanics

Day 3

Wednesday, 27/09/2023

Period	Time	Subject
1 & 2	09:00 – 12:15	Self Study
Lunch Break		
3 & 4	13:00 – 16:00	Visit to Kaoussis http://kaoussis.gr/

Day 4

Thursday, 28/09/2023

Period	Time	Subject
1	09:00 – 10:30	Vehicle modeling suspension using Matlab
2	10:45 – 12:15	Vehicle modeling using TruckSim (Practice)
3	13:00 – 14:30	Dynamic Measurements
4	14:45 – 16:15	06_Hazardous materials and HEV_EVs

Day 5

Friday, 29/09/2023

Period	Time	Subject		
1	09:00 – 10:00	Torque Vectoring Application		
2	10:15 – 11:15	Vehicle modeling using TruckSim (Practice)	Vehicle modeling suspension using Matlab (Practice)	Dynamic Measurements
3	11:30 – 12:30	Dynamic Measurements	Vehicle modeling using TruckSim (Practice)	Vehicle modeling suspension using Matlab (Practice)
4	12:45 – 13:45	Vehicle modeling suspension using Matlab (Practice)	Dynamic Measurements	Vehicle modeling using TruckSim (Practice)
5	14:00 – 15:00	Closing of the workshop		

Main criteria of selection of the staff

- Professional background / academic degree
- English skills
- Gender
- Time of apprenticeship
- Plans for the professional future at the university
- Relevance to the main subject of the workshop