



E – DRIVETOUR

Beyond the Border of Electric Vehicles: an Advanced Interactive Course

D4.2 Course Deployment

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1 Introduction

The main objective of this document is to describe the E-DRIVETOUR program initiation and progress, including the program specifications and requirements, the teaching methodology and program schedule and the program evaluation. In the end, the main issues and challenges encountered are discussed.

The program duration was four months of teaching plus a 14-days industrial experience after the end of the teaching period. The program started in February 2022 (actually January 31st) and ended in September 2022. The education program was divided into two teaching periods, each bearing 12 topics/courses, two of which are the large-scale experiments requiring the students to work towards the development of “demonstrators”: Augmented Reality (AR) applications to support the electric vehicle technology understanding, presentation and measurements. Due to the COVID-19 pandemic, the theoretical courses were taught almost completely online.

2 Objectives of the report

2.1 Purpose of the Document

The objective of this document is to present the main points of the educational scheme deployed in the frame of the E-DRIVETOUR project. The blended approach includes a mixture of methodologies like online web lectures, in-class lectures and laboratories, simulations, medium sized projects and student internships. The final and most challenging part is the inclusion of the activities and results of the medium sized projects in a technical paper to be presented in an International Workshop. The following section describe all the activities.

2.2 Scope of the Document

This document presents task 4.2 related to course deployment. The overall educational procedure with all the activities taken place except the mobility periods are thoroughly described. The target audiences of this report are: (i) all project partners responsible for preparing and amending deliverable, and (ii) internal reviewers responsible for revising completed deliverable.

2.3 Structure of the Document

The document includes the following contents:

- Chapter 1 displays the summary of the report
- In the present Chapter 2, the introductory section is provided, highlighting the scope and objectives of the deliverable
- Following, Chapter 3, the educational activities of the E_DRIVETOUR project are analysed
- In Chapter 4, the most significant of the issues occurred and the solutions given are described
- In Chapter 5, presents the final student project
- In Chapter 6, a summary and the main conclusions of the work are reported
- Annex I, II and III present the teaching hours arrangement for the overall teaching period (online, mobility periods).

3 Conclusions

The main activity of the E-DRIVETOUR project is the actual educational procedure. As it is not a simple straightforward procedure, but it involves a mixture of various approaches including three student mobilities detailed description is required. As I has been explained in this document, all the activities have been arranged and all problems arisen have been overcome. The latter was not granted as the socioeconomic environment surrounding the E-DRIVETOUR activities was not the most helpful.

The document has focused on the activities and the teaching schedule of all the procedure except the mobility periods. Out of the three mobility periods, two were devoted to teaching and laboratories and one to the internship. Special attention was given to the final student project which constitutes the most challenging part of the overall procedure. It was described mainly from the procedural point of view. The final certification exams and the conditions under which the students could reach the final certificate were described.