



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



Summary of the Report “Collection of didactic videos aiming to improve mechatronics skills”

The specific objective of the MIND project is to develop the skills of mechatronics and innovative method training for Industry 4.0 to meet the requirements of employers to prepare qualified students with interdisciplinary skills in mechatronics, IT, and excellent soft skills for developing Industry 4.0 concepts. As proven in many other projects, videos can effectively complement lectures on mechatronics and enhance the learning process. They will also lead to increased student interest. The main reason to use didactic videos to develop mechatronics skills is that the media will appeal to all students' senses and help them better process the information they receive. Video content helps teachers motivate students because it brings real life to the classroom, and a complete communication context represents the language. And instead of taking up more lessons (traditional care for the professor), they help save the teaching role. We believe that the involvement of students in mechatronics will increase in short video clips.

All digital training media are compiled in a central library for direct access, significantly reducing course preparation time. Participants are provided with a set of related material for each session, but instructors can also create new media for tests or questionnaires as needed to complete courses or training.

Mind platform was created, where participants can watch different videos where mechatronic devices and platforms are well explained. Also, they have different learning materials, and they can enhance their knowledge in the mechatronic field. At the end of each course, they can complete a quiz to see how well they understood what they have learned about.

This project has been funded with support from the European Commission. This publication [communication] reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



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