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Summary of the Report “Guidebook for SMEs”

The MIND Guidebook for SMEs and other providers is the final product comprising all the previous results during the MIND project.

The shifting industrial landscape stemming from Industry 4.0 has significant implications for mechatronics curriculum, its accreditation, and the supporting university education system as a whole.

In order to meet the challenges of Industry 4.0, stakeholder groups have to prepare themselves for a digital transformation. Universities need to think about how to adapt their curricula and explore the possibilities of more flexible, smarter, modular, and reconfigurable laboratory structures that support and reflect the fluid nature of Industry 4.0.

In that sense, this guidebook contains guidelines for SMEs from the mapping their own needs in mechatronics related to Industry 4.0 to providing specific mechatronics skills for their workers needed to fulfil new demands required by Industry 4.0.

The role of this material is to actualize managers with the concept of Industry 4.0 and the relevance of a new curricula and e-learning teaching methods in order to develop new skills and competences for students, to meet the companies’ requirements. This might be considered as a new approach of collaboration between universities (professors & students) and business sector.

During the MIND project, training material in mechatronics (course, curricula) with focus for Industry 4.0 needs and the e-learning platform have been prepared. This guidebook gives short description of prepared MIND training material and e-learning platform in order to guide SMEs’ managers for using it for education of themselves and their workers.

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This guidebook gives an overview of MIND results comparing with SME needs, demands, advantages and opportunities that adoption on Industry 4.0 brings to SMEs.

The main idea of this Guidebook was to actualize managers with the concept of Industry 4.0 and the relevance of a new curricula and e-learning teaching methods proposed in MIND project to develop new skills and competences for students, to meet the companies' requirements.

This might be considered as a new approach of collaboration between universities, (professors & students) and business sector.

A guide for SMEs containing a short description of training material in mechatronics (course, curricula) with focus for Industry 4.0 needs and the e-learning platform developed during the realization of MIND project

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