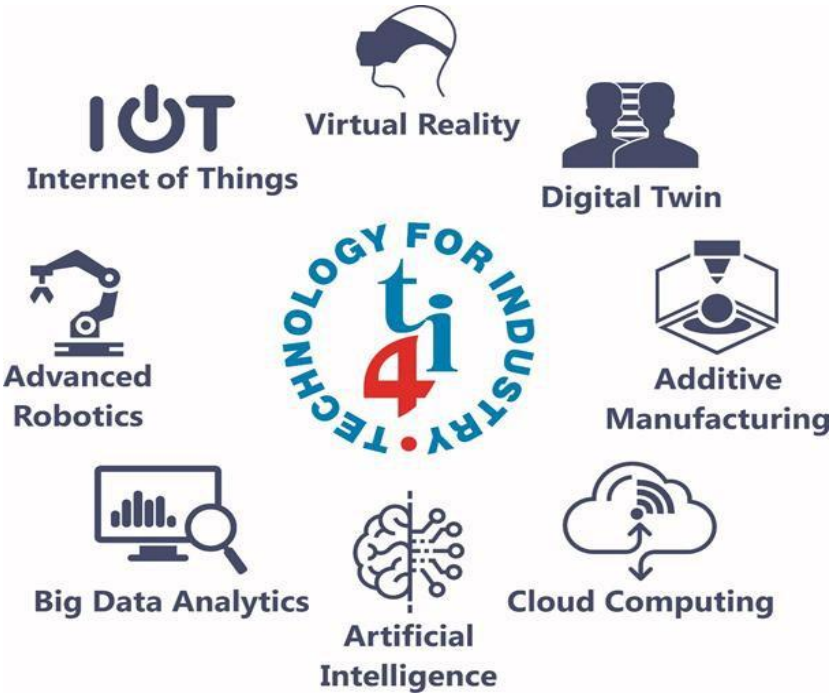
TI4 Erasmus +

Spolufinancované z programu Európskej únie Erasmus+

NEWSLETTER No.1



„INDUSTRY 4.0 TECHNOLOGIES FOR TEACHERS AND TRAINERS IN VOCATIONAL EDUCATION“

Project number:
2019-1-SK01-KA202-060772

Erasmus + Education and training program,
Key action 2 – Strategic partnerships

Project partners

Technická univerzita v Košiciach, Slovensko
Koordinátor projektu
http/www.sjf.tuke.sk

Klaster Automatizačnej techniky a robotiky
AT+R, Slovensko
http://www.clusteratr.sk/

POLYTECHNEIO KRITIS, Grécko
http://www.Tuc.gr

Spojená škola J. Henischa, Bardejov, Slovensko
http://www.ssjh.sk/

Spoločnosť MANEX s.r.o, Košice, Slovensko
http://www.manex.sk/

Univerzita Politechnika, Lublin, Poľsko
http://www.pollub.pl/

Erasmus+

About the project

The term Industry 4.0 /I4/ is a very popular topic today. The industry is undergoing a transformation and evolution towards full digitization and intelligence of production processes to ensure high efficiency. To achieve these goals, it is necessary to implement new technologies and intelligent networking of machines and processes using information and communication technologies. However, the type of work is also fundamentally changing, and thus the skills needed to perform it are also changing.

The biggest challenge for industry managers is not technology - but people. Therefore, educational institutions need to respond to these trends and adapt the curriculum to provide their students with appropriate skills for future employment.

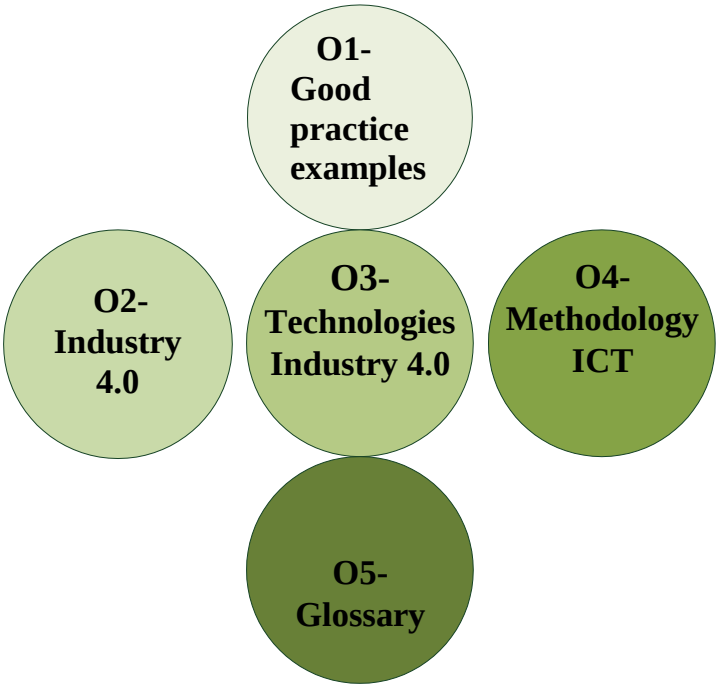
The priority of the project is the elaboration of educational lessons and courses for vocational education teachers, as a crucial article in the profiling and acquisition of skills of vocational school graduates.

- **The content of the project is focused on:**
- **showing good examples of educational practice for I4**
- **showing good examples of practice from the implementation of I4 technologies into production**
- **Elaboration of intellectual outputs with content focused on the development of I4 and an overview of key I4 technologies**
- **change of requirements for job positions, benefits, risks**

The goals of the project are not tied to any field of study or to any job position, because in I4 the current one field profile loses its significance and the future is in interdisciplinary education.

Planned outputs and project results

The results of the project and its activities are based on 5 planned intellectual outputs:



The aim of O1- Examples of good practice is to analyze and use in the project the best methods of implementation of the concept and technologies I4 both in the educational process and in application in practice, pointing out their benefits and effectiveness.

The output of O2 will provide knowledge from the development of I4, definitions of I4, concepts-philosophy of building production I4, digitization.

Elaboration of lessons O3: Technologies I4, as e-learning, will elaborate in detail the principles and methodologies of technology, their applications, methods of implementation and use. These currently include: Internet of Things, Big Data, Robotics, Collaborative Robotics, Virtual and Augmented Reality, Simulation - Digital Twin, Cloud Systems.

Output O4 will use modern ICT solutions as open e-learning.

A glossary of terms and expressions explains terms related to I4 such as e.g. interoperability, customization, M2M, human-cobot, ...

http://projecti4.eu

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