Active Learning Community for Upskilling Technicians and Engineers

BACKGROUND

Industry 4.0 is completely transforming the manufacturing sector in the EU imposing its principle of digitalization of industrial processes. As a result, the new cyber-physical production systems have a high impact on the labour force, especially on technicians and engineers. They require new hybrid "humans-machines" teams, where technicians and engineers should analyze big data, simulate production lines, coordinate robots, diagnose or repair complex automated systems.

PROBLEM

However, data show that industry employees are not ready to face the above new realities since they lack the "right" knowledge/skills demanded by the new industrial environment, i.e. appear underskilled, thus limiting their employability prospects and access to quality jobs. The Skills and Jobs Survey highlights that 43% of adult employees have recently experienced changes in technology they use at work and 47% have seen changes in their working methods.

SOLUTION

Active Learning Community for Upskilling Technicians and Engineers

is a project, developed under Erasmus+ programme, KA2 and lasting from 1.09.2020 to 31.08.2022. It offers an alternative solution to address these challenges and needs by developing an active learning platform for engineering and technical staff in the sector of Machine Building and Mechatronics.

TARGET GROUPS

- **Technicians and engineers in the sector of Machine Building and Mechatronics;**
- **VET trainers;**
- **Companies in the sector of Machine Building and Mechatronics;**
- **VET providers, including universities and Chamber**

PARTNERSHIP

Coordinator
- **Technical University of Gabrovo, Bulgaria**

Partners
- **Cluster Trakia Economic Zone, Bulgaria**
- **Gabrovo Chamber of Commerce and Industry, Bulgaria**
- **International Hellenic University, Greece**
- **Kavala Chamber of Commerce, Greece**
- **Gdansk University of Technology, Poland**
- **Regional Chamber of Commerce, Gdansk, Poland**
- **University of Nis, Serbia**
- **Serbian Chamber of Commerce, Serbia**

OUTPUTS

An Active Learning Community Platform including:
- **Teacher's ToolKit on Active Learning;**
- **Curriculum for upskilling technicians and engineers in the sector of Machine Building and Mechatronics;**
- **14 course materials (PPT presentations, industry-related problems and additional internet resources) to be used by VET teachers and learners and based on blended and active learning;**
- **Tutor and peer-to-peer support in the form of a discussion forum;**
- **Assessment area for assessing the gained knowledge.**

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