

Project outputs

O1 – Analysis of target groups.

The aim of intellectual output was to implement in-depth analysis in order to identify needs and requirements of target groups, which was implemented in all countries of partnership. For need to perform analyzes were representatives of target groups directly contacting by project partners, but in addition also by personal meetings and was also used further new form of data collection as online questionnaire survey. Evaluation of analysis was done for each country, but also globally.

O2 - Set of training materials for training of secondary school teachers in the field of robotics.

This educational materials are based on two basic areas from robotics:

-Industrial robotics - basic terms and definition including parameters, programming, safety of robotic systems, visual and camera systems for robots, robotic end effectors, sensorial equipment for industrial robots.

-Service robotics - basic terms and definition including parameters, programming, wheeled service robots, tracked service robots, robotic end effectors, walking service robots, flying, swimming, climbing service robots, sensor equipment for service robots, multi-agent and swam systems, development trends in service robotics area

O3 - Educational-training ICT platform for the training of secondary school teachers in the field of robotics.

Educational-training ICT platform is a major intellectual project output. It is elaborated into stages of installation, administration and structure of e-learning portal Moodle. It was created by overall concept portal, defining respective roles and competences as well as template of standard lesson in order to test and comment of the project partners. The portal is currently in sample lesson from industrial robotics as an illustration. For verification, inspection and testing of e-learning portal Moodle followed link was created:

<http://rusos.sjf.tuke.sk/moodle/>

Training laboratory



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Faculty of mechanical engineering
Department of robotics
Park Komenského 8
042 00 Kosice

<http://rusos.sjf.tuke.sk/index.html>

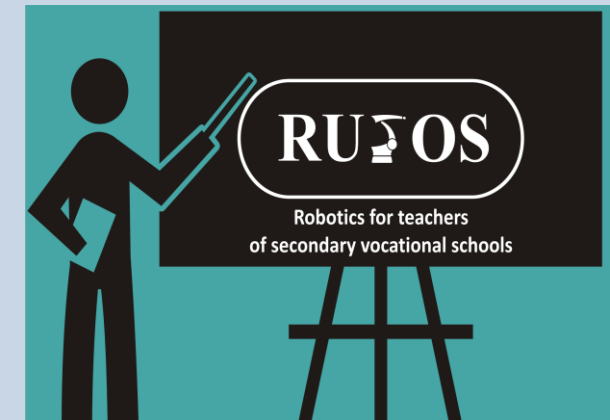
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Program Erasmus + EÚ programme for education, training, youth and sport

ROBOTICS FOR TEACHERS OF SECONDARY VOCATIONAL SCHOOL



Project nr.
2015-1-SK01-KA202-008970

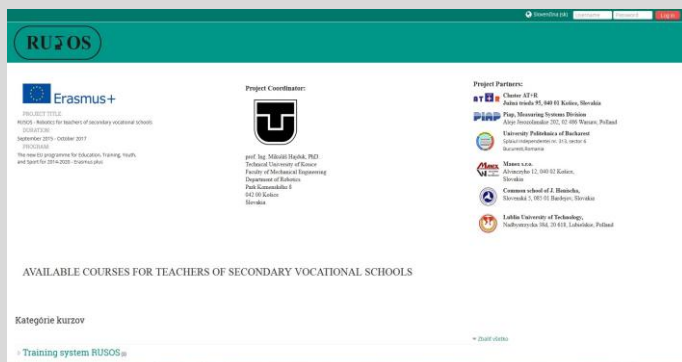
Project duration:
01.09.2015 – 30.10.2017

RUSOS Project

Part of project will be creation of „Educational platform RUSOS“ and Virtual laboratory.

Educational platform RUSOS

This educational platform allows controlled and continuous access to study materials as well as the opportunity to exchange their knowledge and experience with other course participants. RUSOS Educational platform is an e-learning course in Moodle environment, which consists of lessons. Learning platform will be created to allow easy access to learning materials with a focus on ease of use, with multilingual content for all three countries included into the project as well as its overall functionality and usability.



<http://rusos.sjf.tuke.sk/moodle/>

Virtual laboratory

Special part of ICT platform will include a virtual laboratory robots that will be used for evaluation of practical knowledge derived from the study at an educational ICT platform.

Virtual laboratory will be created with a number of virtual 3D models of various robots and other automated equipment. Individual virtual models of robots and other devices will be compiled into different configurations and thus create various robotic workplaces in virtual reality.



Example of virtual laboratory testing with interactive equipment

Project partners



Technical University of Kosice, Slovakia
Project coordinator
<http://www.sjf.tuke.sk/kr>



Cluster of Automation Technology and Robotics, Slovakia
<http://www.clusteratr.sk/>



Industrial Research Institute for Automation and Measurements PIAP, Poland
<http://www.piap.pl/>



Politehnica University at Bucharest, Romania
<http://www.upb.ro/>



Common school of Juraj Henisch, Bardejov, Slovakia
<http://www.ssjh.sk/>



MANEX company, Ltd., Košice, Slovakia
<http://www.manex.sk/>



Lublin University of Technology, Poland
<http://www.pollub.pl/>