

TRAINING AGENDA

Agreement number: PPI/SPI/2020/1/00029/U/00001		
Project title: Digital industry: training for students		
IMPK 3		
The scope of the training: Distance work of industrial firms – improvement of methods and tools		
<u>Training dates for IMPK 3:</u> - 17.01.2022 – 04.02.2022 (1 edition) - 27.06.2022 – 15.07.2022 (2 edition)		
Serials No.	Title of a training	Number of hours
1.	<p>Selected issues of IoT (Internet of Things) systems engineering Basic concepts of systems approach. Definitions, taxonomies, properties. Historical and mathematical background. Examples of simple and complex systems. Mathematical models for complex systems engineering: simulations of transitions and complex structures.</p> <p>Databases in IT Basic mechanisms of data analysis - SQL language. Fundamentals of Structured Query Language (SQL), Data Definition Language (DDL) and Data Manipulation Language (DML).</p> <p>IT system security basics Basic mechanisms of ensuring security in OS Windows. Encryption of disks and partitions. Theoretical background: principle of operation, encryption algorithms. Program installation (configuration, disk determination, parameter selection, key generation). Analysis of the resilience of wireless networks. Theoretical basis: principle of operation, encryption protocols. Performing an attack on the WEP protocol. Performing a brute-force attack on the WPA / WPA2-PSK protocol.</p>	<p>5 hours</p> <p>5 hours</p> <p>5 hours</p>
2.	<p>Digital products and processes – market needs analysis, product design, manufacturing and sale</p> <p>Introduction to SAP S/4HANA Next Generation Business Suite - S/4HANA - the digital core of the company that enables digital transformation. The main areas covered: - preparation of data for procurement, production and sale area, - going through to the sale process, - preparation of SOP for long term planning, - starting production orders and confirming production orders, - preparation of orders for SAP Manufacturing Execution (ME), - simulation in Industry 4.0 Factory.</p> <p>Digital products and processes, factory communication techniques and digital transformation of production firms Overview of the digital industry needs. Digital products manufacturing and sale. Digital manufacturing processes. New communication techniques in factories of the future. Digital transformation case studies.</p> <p>Digital products and processes – supporting applications Review of selected computer programs supporting the management of production, projects, resources, time and project finances. Critical analysis of the possibility of their use in individual areas of the manufacturing process. Case study.</p>	<p>5 hours</p> <p>4 hours</p> <p>5 hours</p>

3.	<p>Legal aspects of remote work Remote work - overview of the changes proposed to the Labor Code: Teleworking and remote work. Equipment at work. Control of the method and conditions of work, health and safety. Accident when working remotely.</p> <p>The impact of cultural diversity on business relationships in the era of challenge Cultural differences and their influence on the cooperation in the business, focusing on the cultures of Americans, Chinese, and Germans (cultural aspects, business in a multinational and multicultural environment, awareness of the cultural differences that impact the common existence and cooperation especially during Covid-19 pandemic, effective communication between employees in international environment, multinational cooperation in the business in the era of different challenges).</p> <p>Building business relationships. Aspects of career development Strategies for career development. Networking as a tool of career development. Abilities and features that make career development easier.</p> <p>Team leader Team leader - tools of an effective leader, conflict resolution in a team, proper communication. Form of classes: workshops.</p>	<p>3 hours</p> <p>3 hours</p> <p>4 hours</p> <p>4 hours</p>
4.	<p>Films promoting Poland</p>	<p>3 hours</p>