Syllabus of Module

6. People vs. Technologies

Lecturer: MA Klára Karimaghai, BA

Module Annotation

The module focuses on the complex relationships between people and technologies in the dynamic environment of 21st-century organizations. It provides an overview of the historical evolution of the labor market and its transformations up to current challenges, such as digital transformation, Industry 4.0, environmental, social, and governance (ESG) aspects, and their impact on work, as well as the growing influence of artificial intelligence. The module emphasizes the connection between psychology, education, and management, with a focus on human adaptation in a technologically advanced environment.

The main topics include: transformations in the labor market, the redefinition of the human role in modern organizations, working with data and technologies, ethical aspects of AI, the future of work, automation, and its impact on human creativity and skills. The module includes case studies, interactive exercises, and real-world projects, enabling students to apply their acquired knowledge in practice.

The module also emphasizes preparing students for an agile approach to addressing challenges, enhancing soft and digital skills, and understanding the key competencies needed for effective collaboration between people and technologies. The final part is dedicated to discussing the future of work and designing strategies for the successful integration of technologies into everyday life and professional practice.

Module Objective

The objective of the module is to clarify the complex relationships between people and technologies in the context of modern 21st-century organizations. Students will gain an overview of historical and current labor market transformations, acquire key soft, digital, and managerial skills, and learn to collaborate effectively with technologies such as artificial intelligence and automation. The module emphasizes practical skills, ethical aspects of technological advancement, and preparation for the future of work, utilizing interactive approaches, case studies, and team projects.

Literature

1. ARMSTRONG, Michael a TAYLOR, Stephen. *Řízení lidských zdrojů: Moderní pojetí a postupy.* 13. vyd. Praha: Grada, 2015. ISBN 978-80-247-5258-7.

2. BRYNJOLFSSON, Erik a McAFEE, Andrew. The Second Machine Age: *Work, Progress, and Prosperity in a Time of Brilliant Technologies.* New York: W.W. Norton & Company, 2014. ISBN 978-0393239355.

3. BURNETT, Bill a EVANS, Dave. *Designerem vlastního života.* Praha: Jan Melvil, 2016. ISBN 978-80-7555-013-2.

4. FORD, Martin. *Roboti nastupují: Automatizace, umělá inteligence a hrozba budoucnosti bez práce.* Praha: Rybka Publishers, 2017. ISBN 978-80-87950-46-3.

5. HARARI, Yuval Noah. *21 lekcí pro 21. století.* Praha: Leda, 2019. ISBN 978-80-7335-612-5.

6. KAI-FU, Lee. *AI Superpowers: China, Silicon Valley, and the New World Order. Boston: Houghton Mifflin Harcourt*, 2018. ISBN 978-1328546395.

7. McKINSEY Global Institute. Jobs Lost, Jobs Gained: Workforce Transitions in a Time of Automation. McKinsey & Company, 2017. Dostupné z: https://www.mckinsey.com.

8. PRICEWATERHOUSECOOPERS. Workforce of the Future: The Competing Forces Shaping 2030. PwC, 2018. Dostupné z: https://www.pwc.com.

9. SVAZ PRŮMYSLU A DOPRAVY ČR. Jak rozumět konceptu Průmysl 4.0. Praha: SP ČR, 2019. Dostupné z: https://www.spcr.cz.

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