

DIGITAL SUPPORT OF EDUCATIONAL METHODS IN SITUATIONS COMPLICATING PRACTICAL TRAINING ON CNC TECHNOLOGIES IN FIELD OF WOOD PROCESSING (ROBODIG)

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Partners: Mendel University in Brno, Technical University in Zvolen, Poznań University of Life Sciences

About the project: Technical fields in the wood industry are not very attractive for the young generation, for reasons such as low social recognition and salary, which often do not reflect the difficulty of studying, but also the overall image of students about the form of teaching. For the reasons described above, the form of teaching does not reflect social development and is unable to speak to the current young generation in the language of their environment, which is whether we want or not the digital world of the Internet and through media of their daily use, where video plays the major role. One of the biggest difficulties in the practical teaching of CNC technology is also the high number of students in the group. The degree of complexity of operations with these machines is very high, and therefore an almost individual approach is necessary so that each student can acquire proper skills. At present, these factors are compounded by the long-term coronavirus crisis. This crisis resonated even more the problems of teaching practical skills and practical demonstrations of CNC technology, without which students are equipped with theoretical knowledge only. The main goal of the project is to create sets of professional instructional videos that will be closely focused on the issue of practical procedures in the field of CNC woodworking technology. These videos will serve as a support for theoretical and conventional teaching to illustrate the issue in practice and in conjunction with the future use of teaching in virtual and augmented reality. They will also serve as a teaching tool qualitatively immune to crisis situations where distance learning is needed. A partial effect of these videos is also the attractiveness of theoretical information thanks to the use of modern digital media. The concept will make it possible to transfer practical information to numerous groups of students while maintaining the benefits of an individual approach.