

## **Simulation-Based Learning: Cases at Slovak University of Technology, at Faculty of Materials Science and Technology**

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**Abstract :** Current era has brought hand in hand with the vast and fast development of technologies enormous pressure on individuals to keep being well - oriented in their professional fields. Almost all projects in the real world require an interdisciplinary perspective. These days we notice some cases when students face that real requirements for jobs are in contrast to the knowledge and competences they gained at universities. Interlacing labor market and university programs is a big issue these days. Sometimes it seems that higher education only "chases" reality. Simulation-based learning can support students' touch with real demand on competences and knowledge of job world. The contribution provided a descriptive study of some cases of simulation-based teaching environment in different courses at STU MTF in Trnava and discussed how students and teachers perceive this model of teaching-learning approach. Finally, some recommendations are proposed how to enhance closer relationship between academic world and labor market.

**Keywords :** interdisciplinary approach, simulation-based learning, students' job readiness, teaching environment in higher education

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