

TITLE Incorporating automated tools and analysis in master programme design	TYPE - BEST PRACTICE IN: Programme design BENEFICIARIES Private training providers, Public HEI and VET providers
CONTEXT • Master's degrees and short-term courses in areas including AI, cybersecurity and IoT developed and implemented across Estonia, Lithuania, Latvia, Italy and Spain. • The programmes are delivered by 4 technical universities, and developed in collaboration with an NGO, two non-profits, a research organisation, a company and SME.	THE CHALLENGE • Finding the balance between making the programme specific and flexible enough. • Addressing both national market needs and student preferences. • Ensuring the sustainability of the programme after the project end.
THE ACTION • Develop automated tools for systematic analysis and monitoring. Solutions implemented: • Data scraping from different sources • Usage of data analysis summarising tools to aggregate data • AI and NLP tools to identify similarities and cluster data among programmes • Competency-oriented tool for competency monitoring and further development predictions • Learning environment log data integration with competency tool to get more insight on potential • study experience problems and its reasons	
TAKEAWAYS • Scheduling Collaborative Online International Learning (COIL) possibilities, maintaining the programme's structure consistency and bringing in required international experience. • Selecting and implementing distance communication technologies (in-person vs. online delivery) which will affect the teaching mode	 Simona Ramanauskaite, Full professor and senior researcher, Vilnius Gediminas Technical University On behalf of MERIT

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