

TFK programme, funded projects 2025

Project title: Master's level courses in exoskeletons for work and sports rehabilitation	
Coordinator Häme University of Applied Sciences Ltd. Kimmo Vänni, kimmo.vanni@hamk.fi	The project aims to develop evidence-based, Master's-level digital course material (10 ECTS) that explains and guides how exoskeletons should be implemented and used to assist workers, reduce physical workload, prevent occupational and sports injuries, and support recovery across various sports. Another objective is to broaden the existing collaboration between HAMK and ZJU—from exoskeleton research to long-term educational cooperation. The project activities include the development of one MOOC and two Master's-level courses: one focusing on occupational settings and the other on sports rehabilitation. To support content development, we will conduct joint testing of various exoskeletons and exosuits in real-world work environments in both Finland and China. Additionally, two international workshops will be organized for researchers, students, and representatives from organizations in both countries. The expected outcomes of the project are as follows: a) Two Master's-level online courses (4 ECTS each), b) One English-language MOOC (2 ECTS), c) Outputs from two international seminars and workshops, including video recordings, presentation materials, and practical implementation guidelines These results address a clear gap in higher education. Courses dedicated to the practical implementation of exoskeletons remain rare, and to our knowledge, no comparable Master's-level courses currently exist.
Partners Zhejiang University	



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