

Název rámcového tématu	Anotace (česky)	Anotace (anglicky)	Školitel	Školitel- specialista	Číslo a název projektu/grantu
Metodika měření a testování materiálových struktur a tvarů nositelných asistivních pomůcek	Methodology of measuring and testing of material structures and shapes of wearable assistive devices	The current trend in the development of body-wearable assistive devices, such as special vests and exoskeletons, is the search for new material and shape properties of structures to increase utility and reduce the physical load of a subject. The current problem is that the development and implementation of wearable assistive devices is not based on wider needs and the assumption of using the most financially and technologically appropriate means that simultaneously meet national and international standards. At present, there is also no uniform methodology for measuring parameters for evaluating the material and shape properties of such devices. The aim of this work is to propose a methodology for evaluation of material and shape properties of wearable assistive devices. Part of the work will also be a proposal of technical means for measuring the material properties of these devices. The proposed measurement and evaluation methodology, including the proposed technical means, will be tested and applied in the design of vests that meet the defined requirements. The work will be consulted with the Office for Technical Standardization, Metrology and State Testing and implemented in cooperation with the University of Defense in Brno.	doc. Ing. Patrik Kutílek, M.Sc., Ph.D.	doc. Ing. Jurah Hub, Ph.D., Ing. Roman Vitek, Ph.D., UO v Brně	MIHRIL (Multi Impact Hybrid Layers) - ochrana proti pouličním hrozbám, TAČR FW01010463