



FACULTY
OF BIOMEDICAL
ENGINEERING
CTU IN PRAGUE

APPLICATION OF AN AGE SIMULATION SUIT IN THE TRAINING OF OUR IT STUDENTS



When developing assistive programs or techniques for seniors, it is essential to take the age-related limitations of this age group into account. With the AgeSuit® age simulation suit, our students now have the opportunity to empathize with seniors' sensory and movement limitations.

In addition to stiffening knee, elbow and vertebral joints, the suit also simulates hearing loss and limited vision. The built-in weights simulate a loss of muscle strength.

- What difficulties do you have when operating small buttons on technical devices if your finger joints are stiffer due to osteoarthritis and decreased sensitivity?
- Can you still use your cell phone quickly and easily?
- Are colors and fonts still clearly visible on the monitor or do I have to choose special settings to capture the content of websites or applications?

An accompanying set of glasses, which simulates various eye diseases in age, expands this experience. This can be used to try out orientation in space and the ability to recognize elements on displays.

In addition, a tremor simulation set is available which simulates involuntary tremors.

With the new knowledge gained, our students can better understand the needs of seniors and develop new programs and technology in a more targeted manner.

The AgeSuit is mainly used in the IKZ and BMT study programs.

