

In 2006, Korea Employment Promotion Agency for the Disabled(KEPAD) and PEN-International started their collaboration aimed at the improvement of the education for deaf and hard-of-hearing students. In an effort to improve the education for the deaf, KEPAD has initiated a change. Faculty members, inspired by the training provided by National Technical Institute for the Deaf (NTID), started an exclusive course for the deaf, known as Mechatronics, in Ilsan Vocational Competency Development Center of KEPAD.

Along with improving the deaf-friendly environment, faculties started to develop teaching materials to provide deaf students with greater access to learning and maximize the effectiveness of their learning. They developed a Web-Based Training (WBT) system that incorporates visual aids in learning and teaching. This WBT system mainly consists of animation, sign language, and captioning.

Animation depicts the process of machining accompanied with captions and sign language. It also provides a dictionary for technical terms, a magnifier, and Q&A functions.

Since it is Web-based, it features improved accessibility and convenience in learning through the Internet. Moreover, faculty members published a sign language dictionary of technical terms in order to fully utilize the WBT system.

All these efforts maximize the outcome of teaching and learning by responding to the educational needs of students and prompting the feedback between students and faculty.