Constructing Digital Archives for Flipped Learning

Jun TAKEDA

Professor	jtakeda@sendai-nct.ac.jp
Affiliated Societies	Council of College Eng. Teachers (COCET), JPN Association of College Eng. Teachers (JACET), JPN Society of Eng. Language Education (JASELE), JPN Association for Educational Technology (JAET)
Keywords	Computer-assisted language learning, Teaching material, Language testing (02100)

Research Topics

・Introducting flipped learning into English education at KOSEN
・How to develop digital movie materials for flipped learning
・Construction and sharing of digital archives for flipped learning

Research Seeds

・Introduction of flipped learning into English education at KOSEN.
The latest version of curriculum has made us choose Flipped Learning (FL) as an ideal
method of English learning/teaching at KOSEN, has been executed on the entire class period of English. Takeda has put 166 video files on Blackboard Learn+, the official LMS for KOSEN, as well as on YouTube since 2014. Each file gives the fundamental grammatical explanation in approx. 5 min, with the result that the average viewing rate of each is 6.6 times per student. This method of FL has helped teachers reduce the time of "calibration" at the initial stage of each class. FL is now being adopted into other subjects

taught at Sendai KOSEN, including math, chemistry, mechanical engineering and social studies.

・Development of teaching materials emphasizing KOSEN students.
There used to be few suitable teaching materials for KOSEN students, some were for the faculties of engineering; others were intended for industrial high schools.
Takeda is an authors of five textbooks specifically designed for KOSEN students,
which assign much more weight to expressions of fundamental scientific matters rather than on literary ones. Takeda is now constructing digital archives of learning/teaching materials of those textbooks on the web with some colleagues so that the FL would be conducted more effectively and smoothly with less reliance on the labor of KOSEN teachers.

Related Technology

・How to produce instructive movies with the applications for flipped learning, e.g., *Explain Everything* and *Keynote*.
・Instruction and reconfirmation of fundamental science in English.