Creating various online learning opportunities using a Small Private Online Course environment

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Background

**MOOC**
edX (2013-)
13 courses, 10 courses/yr.
200,000+ learners

**SPOC**
Open edX (2018-)
14 courses
On-premise

Team:
- Production
- Media
- Tech
- Assessment

Instructor's needs/demands-based flexible approach:
Target learners? Purpose?

Course Offerings

**Full online**
Not offered yet

**Blended/Hybrid**

a) Makeup Class(es)
- One or several weeks materials as a substitute for face-to-face classes
- Students can take a part of the course at home.

Students of "Introduction to Electrical and Electronic Circuit" (B2) are quite satisfied with its several aspects:
- They can watch lecture videos repeatedly or skip a part of them.
- They can look at an experiment or simulation of the electronic circuit at close range.

b) Flipped learning/Preparation and review
- "Clinical Trial" (M) was developed as flipped learning materials.
- It contains three-weeks materials with short lecture videos and pre-class quizzes.
- It synchronizes with a face-to-face discussion-based classes.
- The course is also open to the public (SPOOC).

Open to the public

- "Biostatistics" is a four-week course.
- The purpose is to attract many learners outside the university as a new graduate program was planned.
- Its primary target is working medical doctors with few opportunities to learn statistics in this field.
  - It serves as a remedial course.

Reuse of OCW resources

- Kyoto U has been offering OCW since 2005.
- "Vector and Matrix" was originally designed for an on-campus freshman of Faculty of Engineering
  - 10 lecture videos + a set of problems
  - Re-structured as supplementary learning materials

Social contribution

a) Courses for high school students
- Some courses were developed to target high school students for recruitment.
- "Introduction to Sound Waves" is a course to empirically learn two different aspects (sound pressure/displacement) of a sound wave through experiments of sound wave interference and related computer simulations.

b) Application to training programs
- "Educational Evaluation" was a six-months face-to-face training program for school teachers, regional Board of Education members and others.
- FTF part is replaced with online materials including lecture videos.

Course Improvement Cycle

Improvement cycle for sustainable course offerings

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Feedback session (1 hr.)
- Attendees:
  - Instructor
  - Course production team
  - Educational assessment team
- Course survey/Analytics tool
- Reflection and course improvement