

THE CHINESE UNIVERSITY OF HONG KONG

Micro-Module Courseware Development Grant

Scheme 2: Studies in Foundation Courses

Interim Report (2017-18)

Report due 31 May 2018.

Please return by email to mmcd@cuhk.edu.hk

PART I

Project title: Integration and enhancement of the existing micro-modules platforms for UGFN1000 classroom flipping

Principal supervisor: KIANG Kai Ming and WU Jun Vivian

Department / Unit: Office of University General Education

Project duration: From December 2017 to October 2018

Date report submitted: 23 May 2018

1. Project objectives

The Project is on track and met its objectives of:

- 1) Integration of other micro-modules developed under different projects for the same course into the current KEEP platform.
- 2) Generate a featured micro-module as an introduction for each part of the course.
- 3) Produce more student discussions style micro-modules.
- 4) Produce/convert existing to include interactive in-video exercises and animations.
- 5) Continue to produce more other lecture style micro-modules

We have not changed the objectives.

2. Progress on process, outcomes or deliverables

We have already integrated 4 micro-modules into the current platform. Most of the other planned micro-modules are in progress, as listed in the following table. We didn't encounter any obstacles so far and we would still aim to complete the remaining micro-modules on time.

Integration of other micro-modules	4 micro-modules COMPLETED
Preview videos	3 micro-modules , one for each part, are IN PROGRESS
Student discussions	2 micro-modules are IN PROGRESS
Teacher lecture series with interactive exercises	~9 micro-modules in 3 series are IN PROGRESS
Other teacher lecture series	~9 micro-modules in 2-3 series are IN PROGRESS

3. Evaluation Plan

Surveys for evaluation have been continuously conducted for every semester. Their opinions about the micro-modules will be analysed after the collection of the surveys. Moreover, the usage number of the KEEP course is also monitored and has been constantly increases (now > 1000 registered users as at the time of writing this report). We anticipate this batch of micro-modules can increase student's awareness and interest to use them.

4. Dissemination Activities (reports, websites, video links, products, etc.)

The micro-modules are now all accessible via our KEEP course. To access, one will need a KEEP account to access it. The steps are as follow:

- 1) **Login/Create** your KEEP account at <https://keep.edu.hk/> (please create your account with your cuhk email address. It will require you to activate the KEEP account using that address)
- 2) **Visit** <https://moodle.keep.edu.hk/course/view.php?id=113>
- 3) **Self-enrol** into the course with this self-enrolment key: **ugfn1000**

The results of the overall project have been presented in the following conferences/expos and journals:

Conferences/Expos:

KIANG Kai Ming, "Improving the effectiveness of a science classics-reading course through the use of micromodules". Australasian Science Education Research Association Conference, 2016.

KIANG Kai Ming, NG Ka Leung Andy, CHEUNG Hang Cheong Derek, WU Jun Vivian, "Micro-modules for UGFN1000 classroom flipping". Teaching and Learning Innovation Expo 2016.

KIANG Kai Ming, Derek Hang Cheong CHEUNG, NG Ka-Leung Andy, WU Jun Vivian, "Micro-modules for UGFN1000 Classroom Flipping", Teaching and Learning Innovation Expo 2016.

CHEUNG Hang-Cheong Derek, NG Ka-Leung Andy, Kiang Kai Ming, Hin Yan CHAN. "Effects and Risks of Micro-module Implementation in UGFN1000", Teaching and Learning Innovation Expo 2016.

CHEUNG Hang Cheong Derek, WU Jun Vivian, NG Ka-Leung Andy, Kiang Kai Ming, WONG Ka Tai Isaac. "Micromodules Development for a Compulsory Science Core-text Course". Institute on General Education cum Teacher and Student Conference 2017.

NG Ka-Leung Andy, CHEUNG Hang-Cheong Derek, Kiang Kai-Ming. "E-Learning Implementation in a Compulsory Science General Education Course". Multidisciplinary Academic Conference on Education, Teaching and Learning (MAC-ETL 2016).

NG Ka-Leung Andy, CHEUNG Hang-Cheong Derek, Kiang Kai-Ming. "E-Learning Implementation in a Compulsory Science General Education Course". Multidisciplinary Academic Conference on Education, Teaching and Learning, MAC Prague consulting Ltd.,

2016.

Journals:

KIANG Kai Ming, Hin-Yan Chan, Andy Ka-Leung Ng and Derek Hang-Cheong Cheung, “Effectiveness of Micro-Modules in a Science Classics Course”, American Journal of Educational Research. 2016, 4(13), 917-926.

Website:

【網上講堂】 與自然對話 - 網上輔助課堂 In Dialogue with Nature - Supplementary courseware, <http://cu-genews.com/2016/09/08/505/>