

Project Title: QUANTITATIVE METHODS FOR INDEPENDENT ENQUIRY STUDIES
(IES): CURRICULUM DEVELOPMENT FOR LIBERAL STUDIES
通識教育獨立探究量化研究方法之課程發展

Project Number
2008/0439
(revised)

Name of Organization: Education convergence (教育評議會)

(1) Goals: To raise the quality of Independent Enquiry Study (IES) of Liberal Studies curriculum through the development quantitative methods teaching and learning models.

Objectives

- (i) To develop a set of high-quality teaching materials on quantitative methods for IES.
- (ii) To develop teachers' knowledge and skills in facilitating quantitative methods
- (iii) To train students to use quantitative methods for IES correctly
- (iv) To develop student's ability to analyze and interpret quantitative data
- (v) To establish teaching and learning models of quantitative methods for IES lessons
- (vi) To establish detailed assessing strategies on IES using quantitative methods with respect to the recommendation of "Process" and "Task" assessment requirements specified by EdB.

(2) Targets: Expected number of beneficiaries (Hong Kong, funded by QEF):
Secondary schools: 5; Secondary teachers: 30; Secondary students: 3,000
Project outcomes will be sent to all secondary schools in Hong Kong.

(3) Implementation Plan

(i) Duration: 18 months (1/2010-6/2011)

(ii) Process / Schedule in 3 stages

Stage 1: Preparation and content development (1/2010-4/2010): 4 months

This includes school briefing, gather IES cases that use quantitative methods, gather teaching requirements from teachers, development of contents, and training to use the contents.

Stage 2: Use the contents to facilitate learning in schools (5/2010-4/2011): 12 months

Pilot the content by teaching them in the participating schools. Feedbacks from students and teachers will be collected to refine the contents and to establish the learning models.

Stage 3: Project evaluation (5/2011 – 6/2011): 2 months

Evaluate the feedbacks from teachers and students on the contents and teaching models. Each school is to submit an IES report that uses the quantitative research methods. Cases of quantitative methods are collected to revise the final version of the contents, which will be printed in the form of supplementary materials for students.

(iii) Collaboration with other parties / partners: external education consultant

(4) Products:

(i) **Deliverables/outcomes:** Ready-to-use high-quality materials set on quantitative methods, Teaching and facilitation models, management and statistical tools, assessment criteria, and evaluation report to showcase the teaching and learning models.

(ii) **Dissemination of deliverables/outcomes:** They will be disseminated to through press release, conference promotion and seminars, official news.

(iii) **Commercialization potential of deliverables/outcomes:** Not at this moment.

(5) Budget:

1	Staff Cost (RA)	\$216,000
2	Services (Consultation, training..)	\$201,000
3	General Expenses (Content development, traveling, seminars..)	\$59,500
	Total expenditure	\$476,500

(6) Evaluation: A survey and interview among students and teachers.

(i) **Performance indicators:** The 3 key components to evaluate are Content Quality, Teaching and learning models, and Quality of IES reports. EdB's 6 assessment tasks on IES will be used.

(i) **Outcome measurements:** Data collection from the interview, and survey questionnaires from teachers and students. Detailed measurements include assessment items for "Process" and "Task" of the EdB's IES assessment framework.