

Abstract

The aim of this action research is to develop a curriculum for local environmental education. Before implementing this curriculum, researcher studied the literature of environmental education and the syllabus of environmental education of Macau and the neighborhood. Researcher formulated various goals for the curriculum concerning local environment education and developed the textbook following the guideline of the goals. The research questions of this study are:

- (1) How do teachers design the local environmental education curriculum?
- (2) What kind of problem the teachers will face when conducting this curriculum?
- (3) What kind of factor will influence the implementation of this curriculum?

In the process, researcher revised the content of teaching materials, refined the teaching strategies, and amended the lessons. Over 5 weeks' implementation, researcher collected teacher's reflection diaries, observation records and other documents as data analysis resources. Information obtained from students was also included and analyzed. After analyzing the information with triangulation technique, researcher's findings show:

- (1) The curriculum development and textbook designing of local environmental education are difficult.
- (2) It is not easy to include student in local environmental education curriculum.
- (3) The implementation of local environmental education curriculum is difficult to observe and record.
- (4) It's good to use self-design textbook to implement local environmental education curriculum.
- (5) The shortage of education resources influences the development and the implementation of the curriculum.

- (6) The teaching method influences the result of curriculum implementation.
- (7) Students' idea and attitude towards grades and levels will influence the implementation of local environmental education curriculum.
- (8) The success of local environmental education curriculum depends on whether students are provided with enough opportunities and time to learn.

Finally, based on the findings obtained, some practical suggestions for the implementation of local environmental education curriculum and future development were made.

Key words: Environmental education, Action research