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Exploring the potential for an alternative teacher education programme for pre-service teacher education in the Environmental Related Activities Curriculum in Sri Lanka through the Problem Based Learning approach used in one university in New Zealand

A thesis presented in fulfilment of the requirement for the Degree of
Doctor of Education
at
Massey University, Palmerston North

Aluthge Dona Kalyani Wijayawardana

2011
Declaration

I certify that this thesis does not incorporate without acknowledgement any material previously submitted for a Degree or Diploma in any university; and to the best of my knowledge and belief it does not contain material previously published or written by another person except where due reference is made in the text.

..........................

Signature
Abstract

The researcher’s aim was to explore the potential for an alternative teacher education programme for the Environment Related Activities Primary Pre-service Teacher Education curriculum on the basis of the Problem Based Learning approach as used in the Integrated Curriculum: Science and Technology course conducted by one University in New Zealand.

In this study, three methods of data collection were used in order to understand the main features of the Problem Based Learning approach used in the above course. Semi-structured interviews helped to capture the ideas from teacher educators involved in this particular course. To triangulate the data, a questionnaire was used to obtain the students’ views on the Problem Based Learning approach and how it helped them in preparing to be quality teachers in the integrated primary school curriculum in New Zealand. Further, the researcher carried out a document analysis on several curriculum materials found in New Zealand and Sri Lanka.

From this study, the researcher found that the Problem Based Learning approach used in this particular primary teacher education course is a curriculum model based on the principles of constructive learning theories. The Problem Based Learning approach used problems as a context for students to acquire knowledge, and the students were actively engaged in learning which is authentic to the environment as all problem scenarios are from real life contexts.

The Environment Related Activities primary curriculum in Sri Lanka consists of major themes and learning activities focus on learning through the environment. All themes are related to the everyday life of the children. Similarly, in New Zealand, the primary school curriculum is based on an integrated approach. From this study, the researcher found that the Problem Based Learning approach used at one university in New Zealand, suits the integrated nature of the primary school curriculum in New Zealand. Therefore, the researcher highlights the main features of Problem Based Learning approach and explores the potential for an alternative teacher education programme for the Environmental Related Activities Primary Pre-Service teacher education curriculum in Sri Lanka.
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# Table of Contents

**CHAPTER 1.0- INTRODUCTION**

1.1 Background 1

1.2 Motivation for the research and current teacher education innovations in New Zealand 2

1.3 Focus of the study 5

1.4 Education system in Sri Lanka 8

1.5 Primary education in Sri Lanka 9

1.6 Teacher education in Sri Lanka and in New Zealand 10

1.7 Limitations of the study 14

1.8 Thesis organisation 15

**CHAPTER 2.0 - LITERATURE REVIEW** 17

2.1 Introduction 17

2.2 Development of teacher education 18

2.3 National education policy and curriculum development in Sri Lanka 26

2.3.1 Environment Related Activities (ERA) curriculum in Sri Lanka 27

2.4 The New Zealand school curriculum 29

2.5 Dynamic status of the curriculum 31

2.6 Teacher education in New Zealand 33

2.8 Issues in science and technology teaching 38

2.9 Comparing and contrasting the primary curricula in New Zealand and Sri Lanka 41

2.10 Integration and models of integration 43

2.11 Different approaches to curriculum integration 49

2.12 Problem Based Learning approach (PBL)
   - 2.12.1 The role of the tutor in PBL 53
   - 2.12.2 Student learning in PBL 54
   - 2.12.3 Methods of assessment in PBL 57

2.13 Chapter summary 61

**CHAPTER 3.0 - RESEARCH METHODS AND RESEARCH PROCESS** 62

3.1 Research process 62
# 3.2 Research questions

# 3.3 The objectives of the proposed study

# 3.4 Research methods

# 3.5 Data collection sources and participants

## 3.6 Sources of data and data collection techniques

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6.1 Written and policy documents</td>
<td>66</td>
</tr>
<tr>
<td>3.6.2 Interviews</td>
<td>67</td>
</tr>
<tr>
<td>3.6.3 Questionnaires</td>
<td>69</td>
</tr>
</tbody>
</table>

# 3.7 Details of data collection instruments

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7.1 Documents</td>
<td>71</td>
</tr>
<tr>
<td>3.7.2 Interview schedule</td>
<td>72</td>
</tr>
<tr>
<td>3.7.3 Questionnaire</td>
<td>72</td>
</tr>
</tbody>
</table>

# 3.8 Development process

# 3.9 Research procedures

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.9.1 Ethical issues</td>
<td>74</td>
</tr>
</tbody>
</table>

# 3.10 Methods of data analysis

# 3.11 Validity and Reliability

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.11.1 Trustworthiness and credibility</td>
<td>77</td>
</tr>
<tr>
<td>3.11.1.1 Data Source triangulation</td>
<td>78</td>
</tr>
<tr>
<td>3.11.1.2 Giving voice to the participants</td>
<td>78</td>
</tr>
<tr>
<td>3.11.2.3 Conducting the research in a systematic way.</td>
<td>78</td>
</tr>
</tbody>
</table>

# 3.12 Chapter summary

---

# CHAPTER 4.0 - DATA ANALYSIS

## 4.1 Analysis of curriculum materials

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1.1 Primary school curriculum and Environment Related Activities (ERA) curriculum in Sri Lanka</td>
<td>80</td>
</tr>
<tr>
<td>4.1.2 New Zealand and Sri Lankan curricula</td>
<td>82</td>
</tr>
</tbody>
</table>

## 4.2 Curriculum implementation and the teachers’ role

## 4.3 Features of the Integrated Curriculum: Science and Technology course

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3.1 Goals of the Integrated Curriculum: Science and Technology course</td>
<td>91</td>
</tr>
<tr>
<td>4.3.2 PBL approach and responses from the lecturers (teacher educators) and the students</td>
<td>94</td>
</tr>
<tr>
<td>4.3.2.1 Key goals of the course</td>
<td>94</td>
</tr>
<tr>
<td>4.3.2.2 Lecturer’s (teacher educator’s) role as a facilitator in a PBL approach</td>
<td>96</td>
</tr>
<tr>
<td>4.3.2.3 Changes in teaching approach from traditional methods to PBL</td>
<td>97</td>
</tr>
<tr>
<td>4.3.2.4 Assessment procedures in PBL</td>
<td>98</td>
</tr>
<tr>
<td>4.3.2.5 ICT is embedded</td>
<td>98</td>
</tr>
<tr>
<td>4.3.3 Student views on the Integrated Curriculum: Science and Technology course</td>
<td>99</td>
</tr>
</tbody>
</table>

## 4.4 Discussion and implication of the results

## 4.5 Chapter summary
CHAPTER 5.0 - RESEARCH FINDINGS AND AN EXPLORATION OF THE POTENTIAL SUITABILITY FOR AN ALTERNATE TEACHER EDUCATION PROGRAMME FOR SRI LANKA 111

5.1 Key elements of PBL and why it would be suitable for pre-service primary education in Sri Lanka  111
5.1.1 Introducing a problem scenario for the ERA teacher education programme in Sri Lanka  114
5.1.2 Lecturer’s role as a facilitator - facilitator role found in the PBL approach used in New Zealand and how it matches the ERA teacher education programme in Sri Lanka  122
  5.1.2.1. Designed ill-structured problem scenarios and selecting concepts that would be parallel to the required course concepts  122
  5.1.2.2 Developing concept maps through scenario discussions in PBL and linked subject disciplines  123
  5.1.2.3 Link with other curriculum areas in ERA  127
  5.1.2.4 Teacher educators work in teams and enhance student learning  129
  5.1.2.5 Act as models to ask metacognitive questions  129
  5.1.2.6 Supportive and flexible  130
  5.1.2.7 Keeping the learning process moving  131
5.1.3 Changes of teaching approach and learning styles arising from PBL and its applicability to the ERA teacher education curriculum.  131
  5.1.3.1 Teaching approaches used in PBL are different from a traditional lecture method.  131
  5.1.3.2 Use “Need to Know” templates  132
  5.1.3.3. Work cooperatively in teams and learning occurs in small groups/individually  132
5.1.4 Assessment procedures  133
5.1.5 ICT is embedded into the programme  133

5.2 Key aspects to be considered for an alternative teacher education programme for ERA teacher education in PBL  134
5.2.1 Introduction and immersion experience of PBL  134
5.2.2. Managing the transitions  134

5.3 Assessment tasks  135
  5.3.1 Types of assessments  135

5.4 Competencies to be covered by the alternative programme  136

5.5 The possible application procedure  137

5.6 Overall structure for an alternative teacher education programme  138

5.7 Chapter summary  139

CHAPTER 6.0 - CONCLUSIONS, IMPLICATIONS, SUGGESTIONS AND FUTURE RECOMMENDATIONS  140

6.1 Conclusions  140
  6.1.1. The main objectives of Integrated Curriculum: Science and Technology particular course  140
  6.1.2. Major teaching approaches used in this integrated course  141
  6.1.3. The benefits of using Problem Based Learning in teacher education  141
  6.1.4. PBL would be useful to fulfil the objectives stated in the national primary school science curriculum in New Zealand  141
  6.1.5. How PBL could be adapted to the Sri Lankan teacher education programme?  142

6.2 Implications  142
  6.2.1 Teacher educators  142
  6.2.2 Curriculum developers  143
  6.2.3. Teachers  143
  6.2.4 Researchers  143
List of Illustrations

Figure 1: Integrating theory and practice into Primary Teacher Education…….. 07
Figure 2: Primary Curriculum Framework and time allocation for primary grades…………………………………………………….. 10
Figure 3: A framework for understanding teaching and learning……………… 20
Figure 4: Model for Problem Based learning ........................................ 55
Figure 5: Flow Diagram for the research methodology………………………. 62
Figure 6: Links between data collection instruments and research questions…71
Figure 7: Mode of Instruction in Primary School in Sri Lanka………………… 80
Figure 8: Model for ERA integrated Curriculum…………………………….. 81
Figure 9: Principles of New Zealand Curriculum……………………………… 86
Figure 10: Comparison of competencies in New Zealand and Sri Lanka……….. 87
Figure 11: Steps used in PBL in Integrated Curriculum: Science and Technology Course ………………………………………………….. 92
Figure 12: Match the steps used in PBL and possible application ……………..119
Figure 13: An example of a concept map……………………………………….125
Figure 14 Developing concept maps from PBL scenario discussions…………127
Figure 15: PBL application for Sri Lanka………………………………………..137
Figure 16: Overall planning and implementation of the programme………….. 138

Table 1: Data collection sources and participants…………………………… 66
Table 2: Links between Data Collection Sources and Research Questions……73