

Thesis Title Construction of Science Free Elective Courses
According to Lower Secondary Education Curriculum
B.E.2521 (Revision B.E.2533) Based on Knowledge
Gained from Community Resources in Lampang Province

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Abstract

The objectives of this research were to study various kinds of scientific knowledge from community resources in Lampang Province. These information data can be used for the construction of Science Free Elective Courses According to Lower Secondary Education Curriculum. The samples consisted of 82 science teachers teaching at the lower secondary school level of the Secondary School Department of the Ministry of Education in Lampang Province. The samples were technicians from nine community resources. The instruments used were questionnaires for science teachers, technicians of community resources interviewing forms, specific community resources observation forms, the knowledge conclusion of community resources recorded forms and a camera. The

above instruments were examined the content validity 80 % by experts on the criterion

The research findings were as follows :

1. Science teachers suggested 36 suitable community resources appropriate for learning and teaching science at the lower secondary school in Lampang

2. There were 9 suitable community resources in Lampang for construction of Science Free Elective Courses According to Lower Secondary Education Curriculum. The 9 community resources were as follows : Lampang Technical College, Lampang Polytechnic College, The Electricity Generating Authority of Thailand (EGAT), Northern Informal Education School Center, The Institution of Lampang Technology of Agriculture, Plants Experimental Station, Lampang Provincial Pesticide Prevention Unit II, Lampang Provincial Agricultural Office and the Local Region of Electricity.

3. Applicable effective data studying from suitable community resources constructed 2 Science Free Elective Courses at Lower Secondary School level as follows.

3.1 Herbs for preventing and getting rid of pests

3.2 Electricity for daily lives

Besides, The two completely subjects construction, we might bring some knowledge from community resources in Lampang to construct other science free elective courses such as The Knowledge of Energy, Food Preservation, Ceramics, and porcelain etc.