

Thesis Title The Development of Programmed Lessons on
 "Environmental Education For Conservation of
 Mangrove Forest" for Secondary School
 Teachers in Chanthaburi Province

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ABSTRACT

The purpose of this research was to develop and determine the effectiveness of the programmed lessons on "Environmental Education for Conservation of Mangrove Forest" for secondary school teachers in Chanthaburi Province. The hypotheses were as follows:

1. The constructed programmed lessons should meet a minimum standard of 90/90
2. The pre-test and post-test scores would be significant different at 0.05 level

The target population for this research were the secondary school teachers in five Amphoes in Chanthavburi province where mangrove forest existed.

The research procedures were as follows : Construct 54 frames of the linear programmed lessons entitled "Environmental

Education for Conservation of Mangrove Forest" and develop the achievement test for determine the effectiveness of the programmed lessons.

The programmed lessons were developed by four experitises and individual experiment and small group experiment. The individual experiment and the small group experiment, was first carried out, using stratified random sampling by randomed the schools name and random the number of teachers name, while the second using simple random sampling from the teachers name in Chanthaburi province. The experimentations were devided as follows:

The individual experiment, used for three respondents from secondary school teachers, Klungrachadapisek school, Amphoe Klung.

The small group experiment, was first carried out, using six respondents from secondary school teachers, Benjamarachutis school, Amphoe Muang.

The small group experiment, was second carried out, using nine respondents from the six secondary schools in Chanthaburi province.

The evaluated effectiveness experimentations, using thirty respondents from the six secondary schools in Chanthaburi province.

Analysis of data revealed that the programmed lessons were met the standard with the efficiency rate of 95.11/93.06. The comparison between pre-test and post-test scores showed a statistical different at 0.05 level.