

## ABSTRACT

The purpose of this research was to develop and implement a self-study package entitled "Conservation of mangrove forest resources" for improving knowledge of eastern elementary school teachers. The research procedures were designed in five sequential stages as follow. (1) Studing the need for training and select relevant content of conservation of mangrove forest resources. (2) Drafting the outline of the self-study package. (3) Developing a complete set of self-study package (4) Developing an achievement test of the knowledge required and (5) Trying out and out the quality of the package with the inservice teachers.

The 90/90 standardized criterion of efficiency was employed to find out the quality of the package. The pretest-posttest control group design was used to recheck the quality of the package. Sixty elementary teachers in Trat Province were

purposively selected for this study. From the sixty, thirty teacher were assigned as an experimental group whereas the thirty others as the control group.

Analysis of data showed that

The total self-study package had the standard efficiency of 95.42/940 whereas the efficiency of each separate set was also above the standard criteria

When the achievements between the posttest of the experimental and control group, and between the pretest and posttest of the experimental group were tested, it was found that their achievements were significantly different at the .05 level. that is the experimental group gained significantly were. This showed that the experimental group gained much knowledge and significantly different from the control one. The score of the posttest was also higher than that of the pretest of the same experimental group.

The above analysis indicated that the self-study package was efficient and be able to use by eastern elementary school teachers for improving their knowledge concerning conservation of mangrove forest resources.