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Abstract

The purposes of this research were to develop and to evaluate the efficiency of an Instructional package on Data Structure for Diploma level in Technique Computer Division. Rajamangala Institute of Technology, 1999

The experiment and implement were develop including test that cover 4 topics of unit in the package. These topics are Basic Knowledge of Data Structure, Algorithm, Arrays and Stacks. Each of unit consisted of teacher's manual, teaching aids were develop and field-test. Teacher's manual consisted of lesson plan, formative test. Teaching aids consisted of transparency and presentation with PowerPoint program. Additional laboratory sheet in Arrays and Stacks unit. Thirty sample First-year student in the Technique Computer Division of Rajamangala Institute of Technology North Bangkok Campus during the second semester of academic 2000. During the experiment, the students were asked to do exercises. After all lesson were taught the achievement test was given right. The score acquired from the exercise and test were used to determine the efficiency of the Instructional Package.

The research finding reveal that, the Instructional Package for Data Structure was effective. The average learning progressive of student was 84.88 percent which higher than 80 percent established criteria and the average learning achievement of students was 83.36 percent which higher than 80 percent established criteria