

Thesis Title	The Construction of Self - Learning Packages for Data Structure Vocational Diploma Program, Rajamangala Institute of Technology
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#### Abstract

The purposes of this research were to construct and determine the efficiency of Self - Learning Packages for Data Structure. Based on the Vocational Diploma Program, Rajamangala Institute of Technology

The tool of this study consist of two parts : 1) Self - Learning Packages for data structure according to the syllabus of Vocational Diploma Program, Rajamangala Institute of Technology, 2) Pre-test, unit-test, and post-test for determine the efficiency of the packages. The sample groups were 30 students of the first year Diploma Program from Electrical Engieering Department, Rajamangala Institute of Technology North Bangkok Campus who major in Computer Technology and had never studied this subject before. The pre-test unit-test and post-test were given before and after the experiment which the unit test of 7 lessons were given immediately after the end of each lesson during the period of experiment the scores of each unit test were collected and analyzed. The results showed that the Self - Learning Packages reached 91.05/90.72 of efficiency which were higher above the criteria set at 90/90 The comparison of score between the pre-test and post-test by using t-test was significantly different at

the level .05 that means the Self - Learning Packages was consisted to be an efficiency Software Packages.

**Keywords : Self – Learning Packages/Data Structure/ Rajamangala Institute of Technology**