

Areerat Luxamila-awe 2007: An Analysis of Registration System of Ramkhamhaeng University. Master of Science (Statistics), Major Field: Statistics, Department of Statistics. Thesis Advisor: Associate Professor Chirash Sukhagate, M.S. 216 pages.

The purpose of this research was to compare the registration system of Ramkhamhaeng University. The study was as follows:

For this research, the registration system of Ramkhamhaeng had 55 registration service channels. These channels were divided into 2 types: the first type was the general registration consisted of 51 channels, the second type was the student's identification cards of VISA-electron registration student consisted of 4 channels.

The new registration systems had 2 systems: the first system had the same channels as the old system, except they were given the equal number of registered students for each time in everyday. The researcher used the first system to compare the efficiency to the new others systems. The second system was reduced the general registration service channel from 51 to 48 channels and reduced the channels of student's identification cards of VISA-electron registration from 4 to 3 channels.

The 100 times independent simulation study showed the result of the second system as follows: for the general registration service, the average waiting time was less 5 minutes and the percentage of server's idle time was less than 10% . For the student's identification cards of VISA-electron registration service, the average waiting time was less 5 minutes and the percentage of server's idle time was less than a half of server's idle time percentage of the first system.

Areerat Luxamila-awe

Student's signature

Chirash Sukhagate

Thesis Advisor's signature

22 / 5 / 2007