

ABSTRACT

**To defined mathematical modelling for budget of in-serviced training students
in
Rajabhat Institute Surin**

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The purpose of this project is to find the conditions and to define mathematical modelling for budget of in-serviced training students in Rajabhat Institute Surin. All details depends on the registration of the students and budget in academic year 2000. The linear programming is used for this research.

The result :

1. The decreased ratio of Industrial Technology students and Human and Social Science students (or Educational students) is the indicator of the decreased ratio of all.

2. The budget portion for faculty of Management Science, faculty of Education, faculty of Industrial Technology, faculty of Human Science and Social Science, faculty of Science and Technology and the other academic centers are 5.36, 3.00, 3.13, 4.34, 8.65 and 75.53 respectively.

3. The equations for this project are $C = \sum_{i=1}^5 f_i r_i$ and $D = \sum_{i=1}^6 y_i k_i$ where

C is the income budget

f_i is the amount of moneys which each students of each faculty spent all year

r_i is the decreased ratio of students of each faculty

D is budget that be .80 times income budget

y_i is budget of each faculty and the other academic centers

k_i is the decreased ratio of the budget for each faculty and the other academic center

if we fixed C or D , we could find the satisfied value of r_i and k_i .