

Inthaseng Inthalaxa 2012: A Comparison Study on Methods of Classification of Student Academic Achievement in Champasack University of Lao People's Democratic Republic. Master of Science (Statistics), Major Field: Statistics, Department of Statistics. Thesis Advisor: Associate Professor Apinya Hirunwong, Ph.D. 94 pages.

This research aim is Comparison Study on Methods of Classification of Student Academic Achievement in Champassack University of Lao People's Democratic Republic. The methods of classificatuion are the Logistic Regression Analysis Method (LRA), the Discriminant Analysis Method (DA) and the Back Propagation Neural Networks Method (BPNN). Variables are used to classify in this research which consists of data variable of students, students' reaction to teacher variable, students' attitude on each other variable, the comments on curriculum variable and education encouragement variable. The samples are 365 students from Faculty of Education, Faculty of Economics and Faculty of Agriculture, Champasak University by stratified random sampling.

This research is found that the method of Back Propagation Neural Networks (BPNN) gave 95.6% correct of classification and regarded as the most percentage accuracy, while the method of Logistic Regression Analysis (LRA) and Discriminant Analysis method (DA) gives the percentage accuracy for classification of 67.5% and 60.8% respectively. The three most score factors by the Back Propagation Neural Networks (BPNN) are the GPA in first year, the student ages and the attitude toward peers.

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Student's signature

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Thesis Advisor's signature