

FACTORS OF DROPOUT STUDENTS FROM FACULTY OF SCIENCE AND TECHNOLOGY, SUAN SUNANDHA RAJABHAT UNIVERSITY

Napapond Tongrattanachat* & Piyada Achayuttakarn** & Adisai Thovicha***

*** Faculty of Science and Technology, Suan Sunandha Rajabhat University, Bangkok, Thailand
Email: napapond.to@ssru.ac.th*, piyada.ac@ssru.ac.th** , adisai.th@ssru.ac.th***

ABSTRACT

This research was to investigate the causes and relationships between the subjects and the factors of dropout students from Faculty of Science and Technology, Suan Sunandha Rajabhat University, which sent the request to dropout or retired data followed by evaluation criteria. Researchers were collected data since 2013 to 2017. This research used population as 448 persons that grouping by 4 groups are Computer Science, Food Science, Education Science, and Applied Science. The dropout students had 3 factors which are social, transferring to another university, and university record the data analysis by Descriptive Statistics and Chi-Square.

From the results, researchers found the most scores of dropout students was the most studied in Computer Science, Education Science, Applied Science, and Food Science, for respective. Which the most of factor as university record. In addition, dropout students have any groups and dropout factors each other as a significance level of 0.05.

Keywords: Dropout, Dropout factor, Subject group, Relationship

1. INTRODUCTION

The education is human resource developing machinery for quality and efficient of economic, social, and culture. In case of Thai take properly educating Driven the country's economy, so the government has focus to National Education Principle. [1] At any rate, educate management just followed by Thai developing to completed man i.e. body, mind, intelligence, knowledge, virtue, and culture for living. In learning methods just create correct conscience about political, keep and promote the rights, occupation capable, self-sufficiency, origination, seek knowledge, and self-learning to continues. [2] University and College have duty for efficient development of citizen, which their duties are collect, analyze, synthesize, create, broadcast, and teach to students because that is youths' guidance realize state of society and situation for resourceful in present. Quality standard university promotion have necessary because of economic develop, in case of production efficiency, personal efficiency, systematic thinking, technology development, earning, and improvement life quality. [3]

The dropout of Bachelor's degree has 3 issues are 1) approved by dean to university, the students have request end of educated with these college 2) incomplete courses in time because of school record underqualified 3) absented, disconnected, died or retired with any causes. [4] The dropout has not ignored, just troubleshoot the problems to keep education standard. In the present, studying focus to students and socials highest usefully or harmonize with skill, ability, and interest of students. [5]

Faculty of Science and Technology, Suan Sunandha Rajabhat University expect to create science and technology qualify students, have knowledge, virtue, morality, responsibility, and make profit to social and human resource promoting for high-occupational.

In the present, the Faculty of Science and Technology have Bachelor's degree totally 14 programs are Informatics Mathematics program, Applied Statistics program, Chemistry, Biology, Applied Physics program, Industrial Microbiology program, Environmental Science program, Biotechnology program, Food Science and Technology program, Home Economic program, Computer Science program, Information Technology program, Sports and Health Science program, and Forensic program. Researcher found that, the faculty have dropout any academic year, when considered statistic data from Academic Sector. Because of dropout more than factors such as stress, family issues, fundamental issues, emigrate, moved to new college, health issues, and non-ability or skill to learn.

From this issues, the researcher who operate has wishful to study about factors of dropout students from Faculty of Science and Technology, Suan Sunandha Rajabhat University for find out causes and problems which effectiveness to dropout students. By the way, the data from this study will be useful data for determine or decide educational standard, and Directors' policy of Faculty of Science and Technology, Suan Sunandha Rajabhat University in the next time.

2. OBJECTIVES

1. To investigate the causes between the subjects and the factors of dropout students from Faculty of Science and Technology, Suan Sunandha Rajabhat University.
2. To investigate the relationships between the subjects and the factors of dropout students from Faculty of Science and Technology, Suan Sunandha Rajabhat University.

Research Hypothesis:

The researcher assumed hypothesis for investigate the relationship data about dropout students from Faculty of Science and Technology, Suan Sunandha Rajabhat University, which described by statistical hypothesis as follows;

H₀: Cause of dropout students (Computer Science group, Food Science group, Education Science, and Applied Science) from Faculty of Science and Technology have not different.

H₁: Cause of dropout students (Computer Science group, Food Science group, Education Science, and Applied Science) from Faculty of Science and Technology have different.

3. METHODOLOGY

Research's population is dropout students of Faculty of Science and Technology since 2013 – 2017 amount of 448 samples, divided into 4 groups as follows:

1. Computer Science group are Computer Science program, Information Technology program and Applied Statistics program.
2. Food Science group are Home Economic program, Food Science and Technology program and Industrial Microbiology program.
3. Education Science are Chemistry program, Informatics Mathematics program, Biotechnology program, Biology program and Applied Physics program.
4. Applied Science are Environmental Science program, Sports and Health Science program, and Forensic program.

Research Tool

1. Resignation student's data (FM-RG-09 REV:00) from Registered department, Academic Service Sector, Suan Sunandha Rajabhat University since 2013 – 2017, which division by first semester students and group of characteristic programs.
2. Collected data table for collect, separate, and analyze data to find out Mean and Correlation of group of characteristic programs and factor to dropout.

Data collection

Researcher has planning and specifying about collected data methods by systematics with collected data table as secondary data, which this table designed to collect and analyse data.

Analysis of data and statistics used

Researcher take data's resignation students form and university record underqualified with statistical program with Descriptive statistics and Chi Square using descriptive about causes of dropout students since 2013 – 2017 and divide the factors with 3 aspects are social, transferring to another university, and university record.

4. RESULTS

Part 1: The comparison of population and percentage of dropout students since 2013 – 2017

From studying the data since 2013 – 2017, dropout students from Faculty of Science and Technology, Suan Sunandha Rajabhat University has 448 persons, which are divided to 4 groups as Computer Science group, Food Science group, Education Science group, and Applied Science group, which the results as follows;

Table 1 Population and percentage of dropout students since 2013 – 2017

Group of characteristic program	Academic years (person)					Total	% Total
	2013	2014	2015	2016	2017		
Computer Science	25	55	40	34	25	179	40.0
Food Science	18	18	11	22	18	87	19.4
Education Science	19	22	21	19	12	93	20.8
Applied Science	7	18	31	21	12	89	19.9
Total	69	113	103	96	67	448	100.0

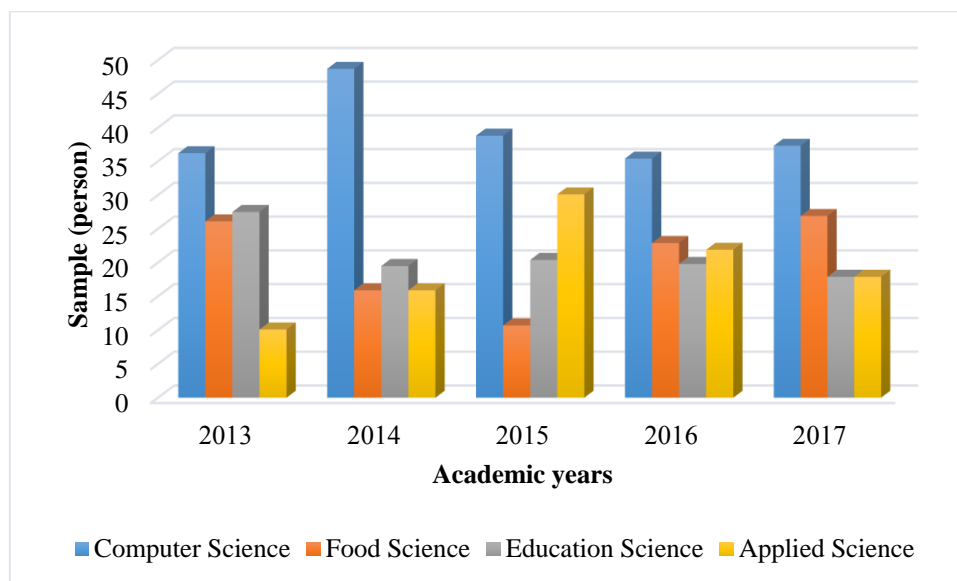


Figure 1 Dropout students' percentage with Faculty of Science and Technology by group of characteristic programs

From Table 1 population and percentage of dropout students since 2013 – 2017 found that the Academic year 2014 had dropout students mostly as 25.2%, Academic year 2015 as 23%, Academic year 2016 as 21.4%, Academic year 2013 as 15.4%, and Academic year 2017 as 15% by respectively.

When divide by group of characteristic programs found that the most of dropout students is Computer Science as 40%, Education Science as 20.8%, Applied Science as 19.9%, and Food Science as 19.4% by respectively.

Part 2: Study the relationship between group of characteristic programs and dropout students' factors

From studying the data since 2013 – 2017, dropout students from Faculty of Science and Technology, Suan Sunandha Rajabhat University has 448 persons, which are divided to 4 groups as Computer Science group,

Food Science group, Education Science, and Applied Science, their factors as follow non-ability or skill, travel inconvenience, health issues, family issues, transferring to another university, emigrate etc., which divided the factors with 3 aspects are social, transferring to another university, and university record for studying the relationship of group of characteristic programs and dropout students' factors as follows;

Table 2 The relationship of group of characteristic programs and dropout students' factors

Group of characteristic programs	Dropout students' factors			Total
	Social	Transferring to another university	University record	
Computer Science	17 (15.58)	52 (58.34)	110 (105.08)	179
Food Science	8 (6.01)	27 (22.49)	34 (40.51)	69
Education Science	9 (9.66)	46 (36.17)	56 (65.16)	111
Applied Science	5 (7.75)	21 (29)	63 (52.25)	89
Total	39 (8.71)	146 (32.59)	263 (58.71)	448

$$\chi^2 = 13.1 \quad df = 6 \quad p = 0.0421$$

From Table 2 found that group of characteristic programs and dropout students' factors have relationship a significance level of 0.05 by their correlation rather low level (0.0421).

5. CONCLUSION

From studying the data since 2013 – 2017, dropout students from Faculty of Science and Technology, Suan Sunandha Rajabhat University has 448 persons by divide to 4 groups as Computer Science group, Food Science group, Education Science, and Applied Science, which their have factors as follow non-ability or skill, travel inconvenience, health issues, family issues, transferring to another university, emigrate, work issues, university record underqualified etc.

Researcher found that, the most of dropout students come from Computer Science group, Education Science group. Applied Science group, and Food Science group by respectively. Which any dropout students in group of characteristic programs have relation with dropout factors as significance level of 0.05.

Directors and lecturers should interest dropout student's issues to teaching techniques for underqualified students with special training or classing on after school. For transferring to another university dropout students just focus to make motivation and astrictive to college for responding expectation students in education and occupation because all of them have influential to educate and exist of students. [6]

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