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Statistical Analysis of Student Interest in Physics Education Fkip Jember University 2019-2023

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Abstract

This article aims to find out statistics on the interest of Physics Education students at FKIP Jember University from 2019 to 2023. This research approach uses quantitative descriptive because the data process is in the form of numbers and is described in descriptions. Statistics is a science that studies how to plan, collect, analyze and interpret until finally presenting data. The enthusiasm of Jember University FKIP Physics Education students that emerged was generated from questionnaire data which included several questions that had reached the interest questions of Jember University FKIP Physics Education students which resulted in: 1) Interested in Physics Education with a percentage result of 62.35%, 2) Not interested in Physics Education with a percentage result of 37.65%, 3) Students who make Physics Education their first choice with a percentage result of 59.4%, 4) Students who make Physics Education a backup choice with a percentage result of 40.6%, 5) Students who felt that Physics Education met expectations with a percentage result of 62.3%, 6) Students who felt they were in the wrong major in Physics Education with a percentage result of 37.7%. This can be seen from the large percentage of questionnaire results.

Keywords: *Statistics, Student Interest, Physics Education FKIP Jember University.*

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INTRODUCTION

The word "statistics" etymologically comes from the word status (Latin) which is the same as the meaning of the word state (English) or the word staat (Dutch). In the Big English Dictionary the words statistics and statistics have different meanings. Statistics means "Statistical Science" while the word statistics is defined as "sample" (Nasution, 2019).

Statistics is a branch of science that studies how to plan, collect, analyze, interpret and present data as well as draw conclusions based on the data set and the analysis done. The processed data group will be able to produce an accurate data analysis (Nu'man, 2019).

Education is a human effort to prepare and develop students' personalities. In formal education, activities in preparing and developing students' personalities can

be through learning activities, guidance and other training that can support their future roles. Education is also one of the government's goals to educate and advance the life of the nation. Students as the nation's generation need to have adequate skills to encourage national development. The formation of these skills can be obtained from positive activities in the surrounding environment, especially at school. So based on this, education is the most important component in the development of active, creative and non-discriminatory human resources. In formal education at school, There are several fields of study that students must study, one of which is science. Science is a field of study where science is studied, including phenomena that exist in nature. However, most students still feel that science is a difficult field of study, especially physics. Currently, physics concepts that are understood by students tend not to last long, because students are given less opportunities to understand what is being studied conceptually (Mahardika*et al*, 2022).

Efforts to support educational equality and development require innovation to attract the interest of prospective students in higher education. Through this innovation, factors will be developed that can influence the interest of prospective students in determining their choice of college. The aim of this research is to determine the influencing factors in choosing Physics Education (Irfan*et al.*,2021).

RESEARCH METHOD

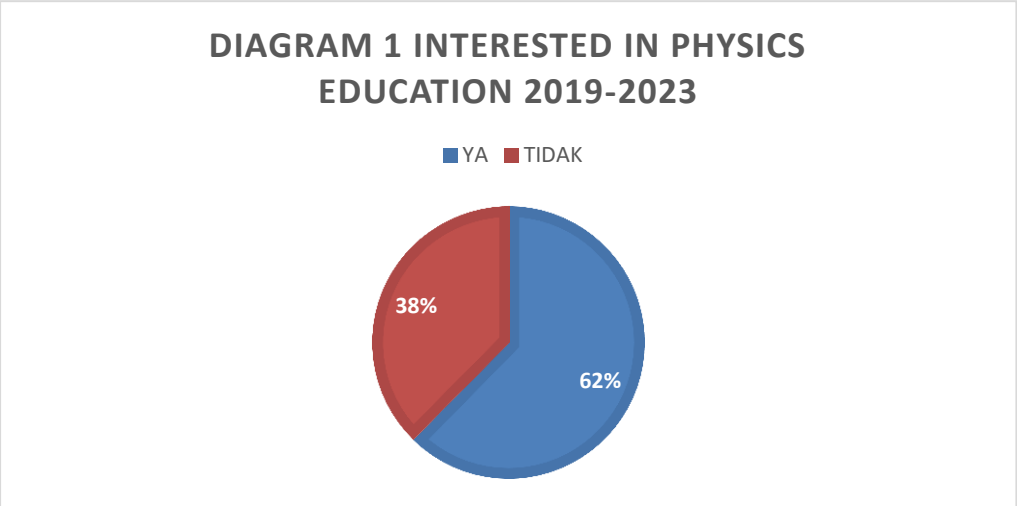
The method used in this research is quantitative descriptive research. Data obtained from distributing questionnaires, and then conclusions are drawn. Data processing and analysis was carried out quantitatively with descriptive explanations. Descriptive research is a research method that attempts to describe the object or subject being studied in depth, breadth and detail. Descriptive research methods are used to solve or answer problems being faced by collecting data, classification, analysis, conclusions and reports. This method is carried out by describing or illustrating the data that has been collected. Quantitative Research is research that takes large amounts of data. In this research, the author wants to know the statistical analysis of interest in Physics Education students at FKIP Jember University in 2019-2023. So the population used in this research used a simple random technique from the Class of 2019 to 2023..

RESULTS AND DISCUSSION

Statistics on student interest in physics education at FKIP Jember University from 2019 to 2023 show that student interest has chosen physics education according to their interests and made it their first choice. This is shown by the data obtained from the questionnaire guidelines. Next, we will discuss the interest of Jember University FKIP Physics Education students in each sub.

Interested in Physics Education 2019-2023

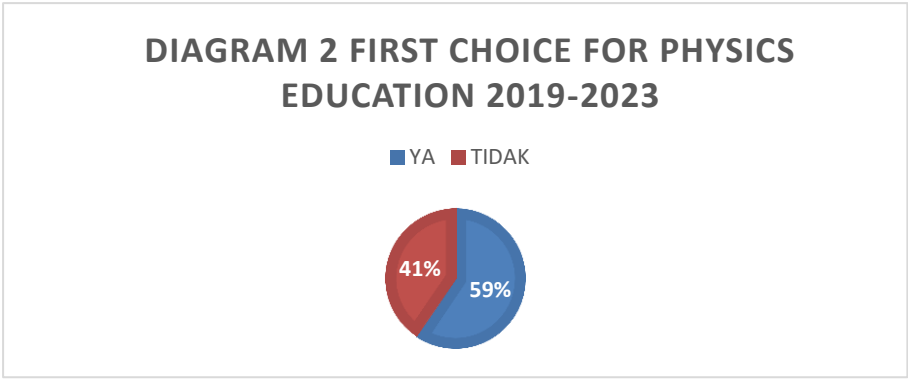
The following is statistical interest data for Physics Education students at FKIP Jember University for 2019-2023, including:



Based on diagram 1 above, those interested in Physics Education from 2019 to 2023 were obtained by distributing questionnaires to FKIP Physics Education students at Jember University from 2019 to 2023. Students who really had an interest in Physics Education were 62%, while students who are actually not interested in Physics Education is 38%. This means that students who enter Physics Education really have an interest in physics from 2019-2023.

First Choice for Physics Education 2019-2023

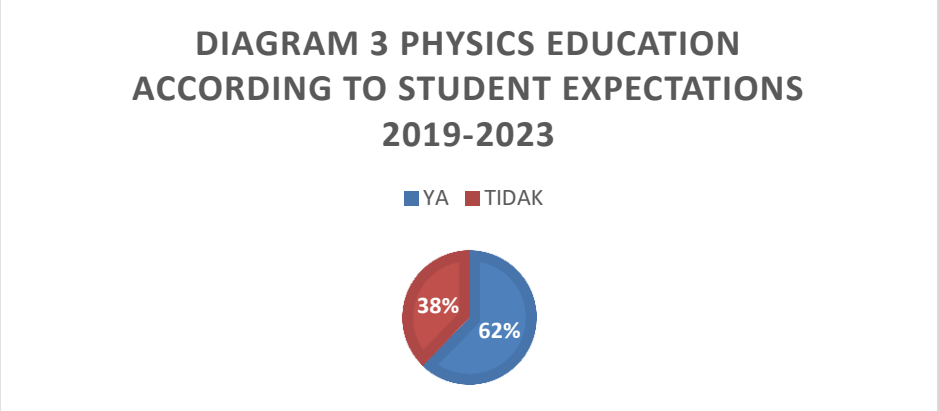
The next diagram presents data from the results of student questionnaires that make Physics Education 2019 to 2023 the choice



Based on diagram 2 above, the first choice for Physics Education from 2019 to 2023 was obtained by distributing questionnaires to FKIP Physics Education students at Jember University from 2019 to 2023. Students who made Physics Education their first choice were 59%, while students who did not make Physics Education the first choice by 41%. The diagram shows that there are more students who make Physics Education their first choice than students who make Physics Education not their first choice

Interested in Physics Education 2019-2023

The next diagram presents data from the results of student questionnaires who feel that Physics Education 2019 to 2023 is in line with their expectations and the following data is:



Based on diagram 3 above, students who feel that entering Physics Education from 2019 to 2023 are in line with expectations were obtained by distributing questionnaires to FKIP Physics Education students at the University of Jember from 2019 to 2023. Students who entered Physics Education feel that they are in line with expectations of 62%, while students who entered Physics Education felt that it did not meet expectations at 38%. In the diagram above, Physics Education students who feel that being in Physics Education has met their expectations have a greater number than Physics Education students who have not felt that Physics Education has not met their expectations. The trigger factor could be that they started entering Physics Education because they followed advice from their parents. or the teacher is not of his own free will.

Reasons for Physics Education Students 2019-2023

able 1

No.	**Statement**	of No
1.	Is becoming a Physics Education student your dream?	
2.	Is Physics Education the first choice?	
3.	After becoming a Physics Education student, did it meet your expectations?	

From the statement above, it can be seen that the average reasons for Physics Education students in answering the questionnaire that we have provided are presented in table 2.

Table 2

No.	Object of research	Reasons for Interest or Not	Reasons for First Choice or Not	Reason: As expected or not
1.	Physics Education Students Class of 2019	because interest and opportunities are accepted	because the chances of being accepted are high	later it will be appropriate because it is suitable for entering the job field
2.	Class of 2020 Physics Education Students	Some students are interested because they like physics or calculating, while others are not because it doesn't suit their wishes	because the chances of being accepted are high	Some students felt it met expectations because it suited their goals and preferences, while others felt it was not suitable because they felt it was not suitable for learning physics
3.	Physics Education Students Class of 2021	Some students are interested because they like calculations and physics, while those who are not because of their parents' choice or because they are just looking for an opportunity are accepted.	Some students choose physics as their first choice because they like and are interested in physics, while other students don't because they only see the opportunity to be accepted.	Some students felt that it met expectations because it matched their favorite material, while students who felt it was not suitable because it did not match their interests even felt less satisfied with the learning provided.
4.	Physics Education Students Class of 2022	Some students choose their interest because they like physics and are also looking for entry opportunities and high job prospects, while those who are not interested because they don't like physics or are forced to pursue high opportunities.	Some students choose physics education as their first choice because of the opportunities and because they like physics, while those who don't because they have chosen a major that is much more popular with their first choice.	Some students feel that it meets expectations because it is in line with their goals and desires such as job prospects and preferences, while some feel that it does not meet expectations because they feel they are not suitable or even unable to adapt and have difficulty with college life in physics education.

5.	Physics Education Students Class of 2023	Some students choose their interest because they like physics and also have a high chance of getting in, while those who don't are forced by their parents and also don't like physics.	Some students choose physics education as their first choice because they really like physics or simply because the chance of being accepted is high, while those who don't choose to prioritize their own pleasure or preferences.	Some students feel that it meets expectations because they really like physics, while some students feel that it does not meet expectations because they have not been able to adapt to college life in the physics education study program.

From the large number of samples above, those interested in entering Physics Education depend on each individual, some are according to their own wishes, there are also those who are according to their parents' expectations, there are also those who are interested in entering Physics Education because their chances of being accepted are high. Students who choose Physics Education according to their interests will feel that they are not in the wrong major, whereas students who choose Physics Education that does not match their expectations will feel like they have the wrong major and are burdened.

CONCLUSION

The above statistics on the interest of Physics Education students can be explained by the data collected using quantitative descriptive research from distributing questionnaires to Physics Education students in 2019-2023 which includes several data that have been obtained 1) Students who really have an interest in Physics Education are 62%, 2) Students who are actually less interested in Physics Education are 38%, 3) Students who make Physics Education their first choice are 59%, 4) Students who do not make Physics Education their first choice are 41%, 5) Students who enter Physics Education feel in line with expectations of 62%, 6) Students who entered Physics Education felt that it did not meet expectations of 38%. These results can be assumed that the Physics Education student data is arranged randomly.

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