

Gitmind-Based mapp engineering career information service to improve students career planning decisions

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Abstract

This research was conducted with the aim of determining the influence of career guidance with gitmind-based mindmapp strategies for improving career planning seen from various aspects of career planning for Al Iman Junior High School students in Magelang City. The population in this study is 9th grade students of Al Iman Junior High School, Magelang City, which is 8 students. The research design uses pre-experimental: one group pretest-posttest design with purposive sampling technique. The data analysis technique used is the Paired sample t-Test with the consideration that in this study one independent variable (Independent Variable) is used. The result of the influence test of this study is that there is an increase in career planning through career guidance with a gitmind-based mindmapp strategy. The level of career planning of students has increased after following career guidance with gitmind-based mindmapp strategies. This is seen from the increase in the results of the career planning scale before and after being given career guidance services by 23% and strengthened through an influence test using a t-test that shows -t count (-4,743) < -t table (-2,365). or Sig data (0.002) < 0.05.

Keywords

Career planning, Career guidance, Gitmind techniques

Introduction

Humans who have fully developed are believed to be able to face every challenge and change that develops in the surrounding community, furthermore, the whole human being is expected to be dynamically able to play a role in answering challenges and changes. The development of a whole human being is not easy, various obstacles and failures are encountered in these development efforts. Various obstacles and failures and their sources can be in humans as a group of people or as individuals.

According to [1] Career guidance is one approach that can help adolescents in overcoming these problems. Through this guidance, adolescents can understand their potential, explore various career options, and plan concrete steps that need to be taken.

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Training and mentoring also play an important role in this process, providing the skills and knowledge needed to enter the workforce. Career guidance involves interaction between counselors and adolescents, where counselors provide information, support, and strategies that help adolescents identify their interests and talents. Career development itself is a series of changes that occur at every level of life influenced by self-understanding, values, attitudes, views, abilities possessed and all hopes that determine the career choices that will be chosen, and is a process that occurs because it is influenced by internal factors within a person and the influence of external factors outside a person [2].

Media is one of the means to improve the teaching and learning process, because of the variety of media, each media has different characteristics. For this reason, it is necessary to choose it carefully and appropriately so that it can be used appropriately and make the media a tool that can accelerate or facilitate the achievement of counseling goals [3]. Information is data that has been obtained from media that is processed as a basis for making a decision. The availability of information is important for counselors to equip the guidance and counseling service room with information materials that are as complete as possible and as diverse as possible [4]. Career problems are problems of students' future, so current activities will greatly affect students' future [5].

Mind mapping can be interpreted as the process of mapping thoughts to connect concepts about certain problems from branches of nerve cells to form conceptual correlations leading to an understanding [6].

Factors causing the low understanding of students in planning a career can be in the form of a lack of career information they obtain. The earliest consequence that students feel is confusion in determining the choice of majors and further studies at tertiary institutions [7]. Through career information services, students are expected to receive and understand a variety of information that can be used as material for consideration in making career decisions [7]. Career planning is an activity or action carried out in a directed and focused manner based on the potential interests, talents, beliefs and values that are possessed to produce a source of income that allows for progress and development both in quality and quantity [8].

The use of the mind mapping method is one of the easiest learning methods to put information into the brain and take information out of the brain [9]. The Mind Map learning model is one of the learning models for creating drawings/diagrams about key concepts that are interconnected, marked by curved lines that connect to the second and third branches. According to [10], the learning process of the Mind Map model has several syntax, the syntax is: a. Problem / concept giving b. Group formation c. Record alternative answers d. Reading the results of the discussion e. Attachment of discussion results f. Identify the outcome of the discussion. The mapping application used in this study is the Gitmind Mapping application, namely AI in making concept maps technologically. Because the mind mapping method based on mindmaple lite has

advantages, namely; a) students are able to make plans, b) communicate actively, c) be creative, d) save time in learning planning.

Al Iman Junior High School Magelang City is one of the School Laboratories for students to practice Internships, surveys, and PPL, and the title raised is suitable to be applied in the school due to the limitations of BK Teacher human resources and students who from the pre-surf results show that almost 75% have low career planning.

Based on this background description, the researcher considers it important to apply career guidance with gitmind strategies for student career improvement. On this basis, the researcher wants to develop career guidance with a gitmind strategy to improve career planning for grade IX students at SMP AL Iman Magelang City.

Method

The method in this study is quasi-experimental, with a pretest-posttest design. The students were measured by the characteristics of career planning using a career planning scale. Partly based on the characteristics of the research subjects, they were put into one group, namely the experimental group without a control group (One Group Pretest-Posttest Design). The experimental group was given treatment in the form of career guidance with a gitmind strategy. The design of the measurement can be seen in Table 1.

Table 1. design of the measurement

Group	Pretest	Treatment	Posttest
Experiment	O1	X	O2

Information: O1: Pretest; O2: Posttest; X: Treatment (career guidance with gitmind strategy)

In this study, the type of sample used is purposive sampling. The aim sample is intended to achieve a specific goal, which is for the student's career planning. The subjects of this study were determined by grade IX students of Al Iman Junior High School, Magelang City.

Data collection techniques and instruments use interview, observation, and career planning scales. The sampling technique uses purposive non-random sampling. Data analysis uses descriptive qualitative data analysis for the implementation of group guidance services, while for scale data analysis uses quantitative data analysis using t-test.

After all the data is collected completely and systematically, the next thing is to analyze the data so that it becomes a fact so that conclusions can be drawn on the basis of these facts using statistical programs, namely scientific methods to collect, present, compile and analyze data in the form of numbers. Data analysis using Paired Sample T-test with consideration with this study using one independent variable, while the statistical program used in data analysis is SPSS For Windows Version 24.0.

Here is one of the views of a mind mapping application using the gitmind strategy seen in Figure 1.

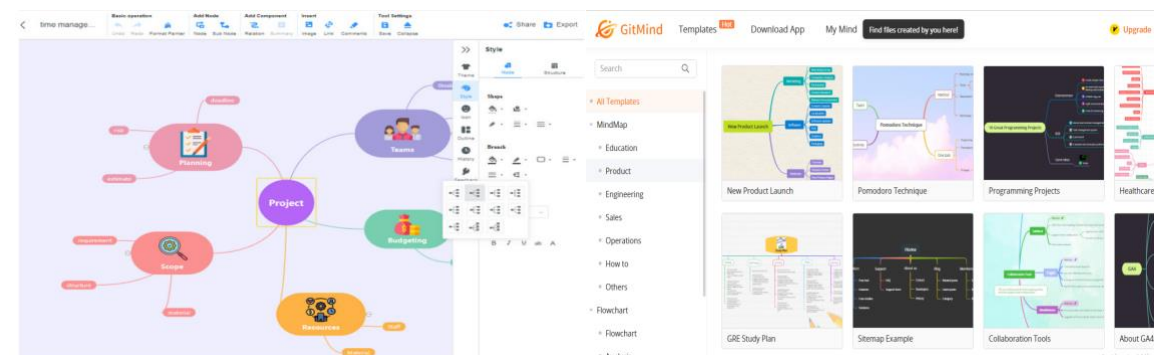


Figure 1. Gitmind mapping application

Result and Discussion

After obtaining research data, both pre-test and post-test data, the next step is to conduct data analysis. Data analysis is intended to be used to test previously proposed hypotheses. The results of the hypothesis test will then be used as a discussion of existing problems.

Paired Sample T-test is a test conducted on two paired samples. A paired sample is defined as a sample with the same subject, but experiencing two different treatments or measurements.

Quantitatively, the improvement of career planning can be seen from the comparison of pretest and posttest scores obtained by each group member. The following is a breakdown of the score of information service services using the gitmind technique on all indicators

Self-understanding indicators

Quantitatively, the improvement of students' career planning can be seen in the indicators of self-understanding. The following are the details of the acquisition of pre-test and post test scores on self-monitoring indicators.

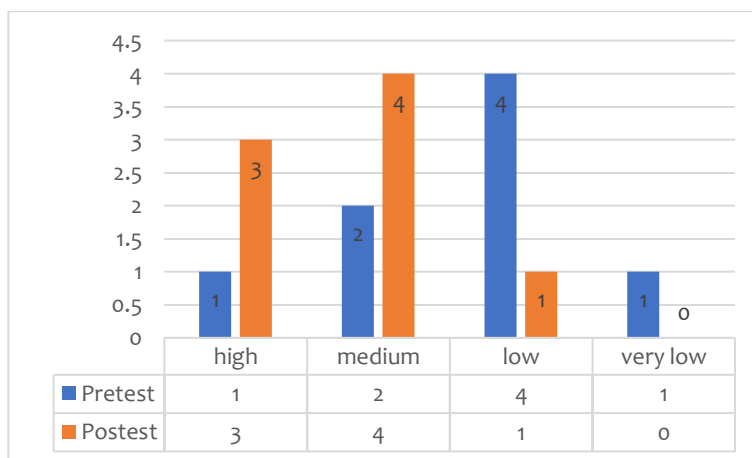


Figure 2. Pretest and posttest scores self-understanding indicators

Based on Figure 2, it can be seen that in indicator 1 there is an increase in career planning in group members who participate in career guidance activities, as evidenced by an average increase of (15%). The data showed that the career guidance provided by the group leader to group members was effective in improving students' career planning. The improvement of indicators is shown by the results of the posttest which are higher than the results of the pretest. In other words, the intervention carried out can control and change aspects of self-understanding related to low student career planning.

Indicators of communication and cooperation

Quantitatively, the improvement in student career planning can be seen in the indicators of Communication and Cooperation. The following are the details of the pretest and post test scores on the Communication and Cooperation indicators.

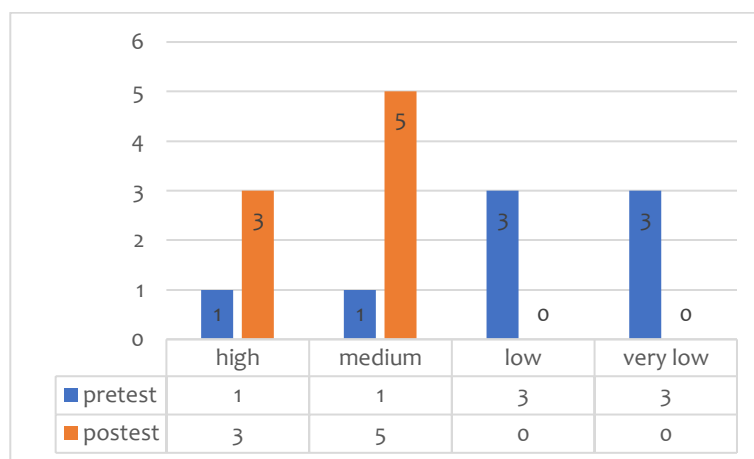


Figure 3. Pretest and posttest scores indicators of communication and cooperation

Based on Figure 3, it can be seen that in indicator 2 there is an increase in career planning in group members who participate in information service activities and can be evidenced by an average increase of (38%). The data showed that the gitmind strategy career guidance provided by group leaders to group members was effective in improving students' career planning. The improvement of indicator 2 is shown by the results of the posttest which are higher than the results of the pre-test. In other words, the interventions carried out can control and change the aspects of communication and cooperation related to career planning.

Indicators of improving self-achievement

Quantitatively, the improvement in student career planning can be seen in the indicator of Improving Self-Achievement. The following are the details of the pretest and post test scores on the Improving Self-Achievement indicator.

Based on Figure 4, it can be seen that in indicator 3 there is an increase in career planning in group members who participate in information service activities and can be evidenced by an average increase of (26%). The data showed that the gitmind strategy career guidance provided by group leaders to group members was effective in improving students' career planning. The improvement of indicator 3 is shown by the results of the posttest which are higher than the results of the pre-test. In other words, the

intervention carried out can control and change aspects of self-achievement related to career planning.

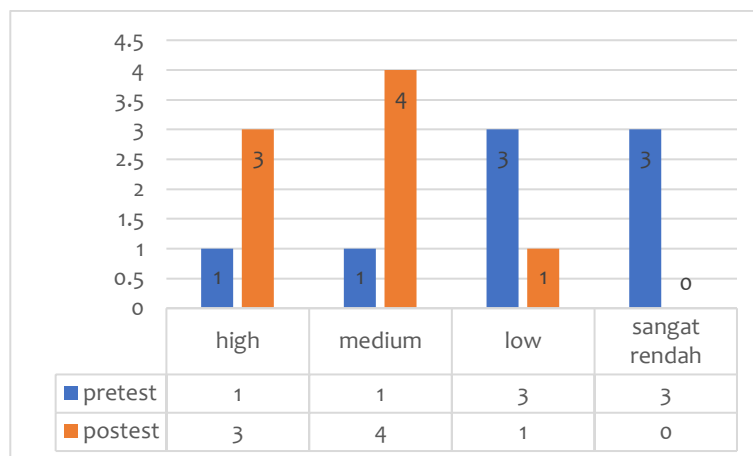


Figure 4. Pretest and posttest scores indicators of improving self-performance

Indicators of getting to know the world of work

Quantitatively, the improvement in student career planning can be seen in the Getting to Know the World of Social Work indicator. The following are the details of the pretest and post test scores on the Getting to Know the World of Work indicator.

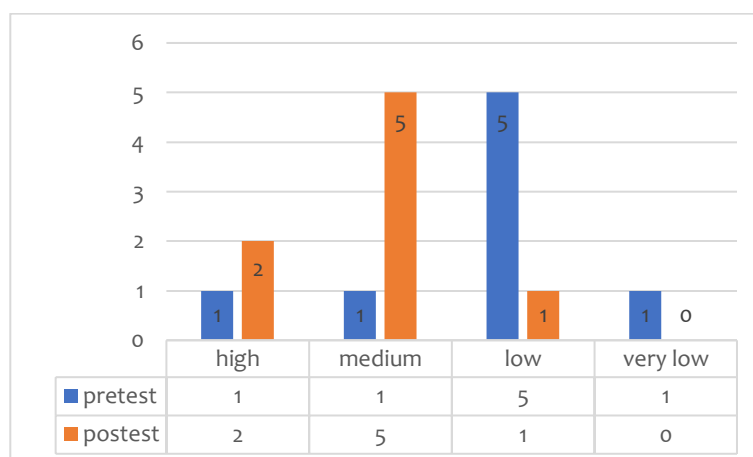


Figure 5. Pretest and posttest scores indicator getting to know the world of work

Based on Figure 5, it can be seen that in indicator 3 there is an increase in career planning in group members who participate in information service activities and can be evidenced by an average increase of (21%). The data showed that the gitmind strategy career guidance given by group leaders to group members was effective in improving students' career planning. The improvement of indicator 4 is shown by the results of the posttest which are higher than the results of the pretest. In other words, the interventions carried out can control and change aspects of getting to know the world of work related to career planning.

Conclusion

From the results of the analysis of 4 (four) indicators in career planning, on average, there is an increase in the results of the initial evaluation (pretest) and final evaluation

(posttest) in addition to the increase in the scale of career planning based on categorization.

Self-understanding is the foundation of successful career planning built on self-awareness. The foundation of successful career planning is built on self-awareness. It involves observing skills and competencies as well as understanding values, interests, and personality to find the most suitable career. From the results of the research based on the planning scale questionnaire for the self-understanding indicator.

Effective communication is important for career success because leaders who build a culture of positive communication can help businesses achieve their goals with greater efficiency, produce satisfied workers, and enhance identities that can all lead to their own success. Based on the results of the research, the communication factor has a very significant factor in student career planning.

Career planning has the following important roles: Identifying your shortcomings and strengths. Enrich insights into career options that align with your passion. Introducing career prospects in various fields of industry in accordance with the development of the desired job market. Related to the results of research that has been carried out, the factor of increasing self-achievement in increasing career planning.

Career education helps students understand the changing needs of the job market, so they can acquire skills that are appropriate and relevant to the latest industry trends. First, it helps students see the relevance of lessons in life. Second, increasing the social mobility of students from low economic levels. Third, it helps students not to rule out certain work options without understanding their advantages and disadvantages. The career education factor.

Career guidance with GitMind-based Mindmapp strategy for improved career planning is effective for improving students' career planning on all indicators. This conclusion is based on the difference in the scores of the initial evaluation and the final evaluation, where there is an increase in students' career planning before and after being given career guidance with a gitmind-based mindmapp strategy for an increase in career planning by 23%. This result was strengthened through an effectiveness test using a t-test that showed $-t \text{ count } (-4.743) < -t \text{ table } (-2.365)$.

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