DATA-PROCESSING TRAINING USES A SPSS APPLICATION FOR IBNU SINA UNIVERSITY MANAGEMENT STUDENTS

Ita Mustika¹, Septa diana Nabellᵃ, Mulyadi³
¹,²,³Ibn Sina University Batam - Riau Islands, Indonesia
Correspondent e-mail: ita@uis.ac.id

Abstract

Research is one of the supporting elements in the Tri Dharma of Higher Education. For research students, it is stated in the writing of the final project, a mandatory requirement to achieve graduation. However, students who will compile their final project are usually confused about the problems they will raise because they do not have experience.

I have never done the research and do not know the program used to process data. Maybe some already know but cannot use it. The training activities use presentation, discussion and practice methods. This activity was attended by 250 students of semester VII (seven) management study programs. From the results that have been carried out, it appears that the participants are enthusiastic about participating in the training. The many questions and responses evidence this participant after the devotees deliver the material and provide hands-on practice. In addition, community service activities that have been carried out have obtained results, including increased knowledge, understanding, and skills of students on how to operate the SPSS program, input and process data and read the output or interpret the results of processing the data.

Keywords: SPSS, Final Project, Research

INTRODUCTION

The Statistical Products and Services Solution (SPSS) program is one of the courses that have been taught to students in the seventh (7) semester, not by program but manually by studying statistics so that students' understanding of the Statistical Product and Service Solution (SPSS) is still minimal or can be said to be zero because it is different from statistics that are studied manually, while with the Statistical Product and Service Solution (SPSS) program we use computer equipment and the way it works is easier and faster to get the expected output results. (Syaleh, 2020).

Statistics is the study of the intricacies of data, namely the collection, processing OR analysis, interpretation, and drawing of conclusions from data in the form of numbers. Along with the rapid technological advances, various computer programs have emerged specially designed to assist in processing statistical data. As a result, statistical data processing becomes much easier and more enjoyable without reducing the accuracy of the results. Several kinds of computer-based statistical applications are known, including:

a. Homemade statistical programs, for example, programming languages BASIC, PASCAL, FORTRAN, etc.
b. Statistics applications are integrated with other programme, such as Lotus and Excel.

c. Special statistical programs include SPSS, Microsat, SAS, Minitab, and SEM Eviews.

SPSS is a computer program used to make statistical analysis Purnomo (2016). Seeing the benefits of this SPSS application, which can assist in processing research data, the service staff sees the need for students to have the knowledge and skills to process data using the SPSS application. (Bulu et al., 2021).

From the findings of the field service team, there are still many students of Ibnu Sina University Management Study Program who have not been able to use the SPSS application in processing research data related to the completion of their final project or thesis, if their final project or idea uses quantitative research. Therefore, it causes them to prefer data processing services because they do not understand how to use SPSS applications or other data processing (Ismail & Safitri, 2019).

The expected objectives for the implementation of this activity are:
1. Provide knowledge about the basics of statistical data processing.
2. Provide the ability to students about the operation of SPSS in the statistical data processing.
3. Provide the ability to students the interpretation of statistical data processing output.

After the SPSS training, students are expected to be able to use SPSS in statistical data processing to improve the quality of research and scientific work.

IMPLEMENTATION METHOD

This training targets students in the seventh (7) semester of the management study program, Faculty of Economics and Business, Ibnu Sina University. The target of this training is semester VII (seven) students, and this is because students already have the provision of how to process data properly using the SPSS program before they will prepare a final project.

The method of activities in this community service are:
1. Presentation
   The servant provides information about the benefits of the operation of the SPSS program.
   In implementing this method, the servant conveys the material to the participants.
2. Discussion
   During the session, training participants are authorized to chat with their fellow participants, the server serves as a facilitator, and the servant can also ask the attendees questions.
3. Practice
Practices are carried out to show the steps to carry out the training and, at the same time to use the SPSS program on the computer.

RESULTS AND DISCUSSION

From the results of this training activity, which was carried out for two days on August 21-22, 2021, online using a zoom meeting.

This training is very helpful for students preparing their final project or thesis, making it easier for them to pour it into their final project, which other people generally do. People who are experts in the SPSS field now students can work on their own, and this activity is very helpful for them because with this *Product Statistics and Service Solution* (SPSS) training program, students can be faster than usual in structuring final assignments because usually the obstacles that arise often had in the field is the difficulty of students in processing this quantitative information with the SPSS program and not many can do it so that it slows down the preparation of their assignments. Syaleh (2020).

The training activities carried out for two days can be seen in table 1. On the first day, the service activities provided students with how to prepare proposals for chapters 1, 2 and 3 and an explanation of SPSS in theory and practice on the second day.

| Table 1 Arrangement of SPSS Training Events for 2 Days |

| First day |
|---|---|---|
| No | Time | Program |
| 1 | 08.30 – 09.00 | Participant Registration |
| 2 | 09.00 – 12.00 | PIG |
| 3 | 12.00 – 13.00 | Ishoma |
| 4 | 13.00 – 14.00 | CHAPTER II |
| 5 | 14.00 – 15.00 | CHAPTER III |
| 6 | 15.00 – 16.00 | Mandeley |

| The Second Day |
|---|---|---|
| No | Time | Program |
| 1 | 08.30 – 09.00 | Participant Registration |
| 2 | 09.00 – 12.00 | Introduction to Statistical Tools |
Figures 1 above show the implementation of the SPSS application training, and the movement is held online using the Zoom Meeting application. After the activity took place, the service team could observe that students were able to process their data on their research data. This result could be seen because the respondents were students preparing for their final project.
For students of the University of Ibnu Sina, the management study program will get an overview of the mastery of student skills in statistical data processing to improve the quality of research and scientific work students.

Overall, the participants were pleased with the community service activities. The participants felt helped by this activity because they needed this activity as part of their competence in carrying out research. Furthermore, some participants were excited to explore the movement by sharing suggestions.

To continue the action on another day with a longer training period and to continue training programs for advanced statistical ideas and multivariate programs such as SEM (Structural Equation Modeling) utilizing AMOS and LISREL.

CONCLUSION

SPSS training activities for students of semester VII (seven) management study programs were carried out well and followed the activity plan. And most of the training participants could receive the module well. So it can conclude that SPSS training is useful for students in preparing themselves to analyze information in making final assignments. Therefore, for Ibnu Sina University Management Study Program.

The results of this research can be obtained as a reflection of the students’ skills in processing statistical information to improve the quality of research and scientific work students, so this kind of training should try more often.

REFERENCES

