



Edukasi Metode Cara Menulis Artikel Kuantitatif dan Kualitatif untuk Mahasiswa Pascasarjana

(Education Methods On How To Write Quantitative and Qualitative Articles For Postgraduate Students)

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Abstract: Writing scientific articles is an important skill in the academic world that requires a deep understanding of research methods, both quantitative and qualitative. This article aims to provide education regarding article writing methods based on these two approaches. In quantitative methods, focus is given to the use of numerical data, statistical analysis, and generalization of research results. Meanwhile, qualitative methods focus on in-depth exploration of social phenomena, narrative data collection, and subjective interpretation. This article outlines the systematic steps in writing articles for both methods, starting from problem formulation, literature review, research design, and data analysis, to drawing up conclusions. By understanding the characteristics and structure of each method, writers are expected to be able to produce articles that are quality, relevant, and under academic rules. This education is expected to be a practical guide for students, researchers, and academics in developing the ability to write scientific articles.

Abstrak

Penulisan artikel ilmiah merupakan salah satu keterampilan penting dalam dunia akademik yang membutuhkan pemahaman mendalam mengenai metode penelitian, baik kuantitatif maupun kualitatif. Artikel ini bertujuan untuk memberikan edukasi mengenai metode penulisan artikel berdasarkan dua pendekatan tersebut. Dalam metode kuantitatif, fokus diberikan pada penggunaan data numerik, analisis statistik, dan generalisasi hasil penelitian. Sementara itu, metode kualitatif menitikberatkan pada eksplorasi mendalam terhadap fenomena sosial, pengumpulan data naratif, serta interpretasi subjektif. Artikel ini menguraikan langkah-langkah sistematis dalam menulis artikel untuk kedua metode, mulai dari perumusan masalah, tinjauan pustaka, desain penelitian, analisis data, hingga penyusunan kesimpulan. Dengan memahami karakteristik dan struktur masing-masing metode, penulis diharapkan mampu menghasilkan artikel yang berkualitas, relevan, dan sesuai dengan kaidah akademik. Edukasi ini diharapkan menjadi panduan praktis bagi mahasiswa, peneliti, dan akademisi dalam mengembangkan kemampuan menulis artikel ilmiah.

Kata Kunci: Edukasi, Artikel Ilmiah, Metodologi.

1. INTRODUCTION

Writing scientific articles is one of the essential aspects of the academic and research world. Scientific articles not only function as a medium to disseminate research results but also as an indicator of an academic's contribution to the development of science (Sakti et al., 2024). In the process of writing articles, two main approaches are often used, namely quantitative methods and qualitative methods. Although the two methods have fundamental differences in

approach, analysis, and data presentation, both have the same goal, namely to provide a deep understanding of a phenomenon (Susanto et al., 2024).

However, many authors, especially students and novice researchers, face challenges in understanding and applying these methods appropriately in writing their articles. Lack of understanding of the characteristics of each method often results in a lack of consistency in the structure of the article, inappropriate use of analysis methods, and errors in compiling research results (Jubba et al., 2023). Therefore, systematic education is needed to help writers understand the differences, similarities, and steps required in writing articles using both quantitative and qualitative approaches (Adlini et al., 2022).

This article aims to provide practical and educational guidance on quantitative and qualitative scientific article writing methods. By understanding the basic principles of these two methods, authors are expected to be able to produce scientific works that are in accordance with academic rules, relevant, and useful for the development of science. The explanation in this article includes steps from formulating problems to presenting research results, with the hope of increasing the competence and confidence of authors in producing quality scientific articles (Hasanudin et al., 2021).

As part of efforts to improve academic skills and professionalism among postgraduate students, Universitas Dirgantara Marsekal Suryadarma held a special educational event that focused on quantitative and qualitative scientific article writing methods. This event was attended by 30 postgraduate students from various study programs who have an interest and need in understanding how to write scientific articles that meet international standards.

This education is designed to answer the academic needs of postgraduate students who are often faced with the demands of publishing scientific works, both for the purposes of final assignments, career development, and contributions to their respective scientific disciplines (Rosadi et al., 2022). With diverse participant backgrounds, the learning approach in this event is structured comprehensively, covering basic theory, case studies, and practical exercises (Nissa & SW, 2023).

In addition, this event also aims to build participants' awareness of the importance of understanding the characteristics and fundamental differences between quantitative and qualitative methods. This is expected to help students in choosing the most appropriate approach to their research topic, structuring a good article, and presenting research findings clearly and convincingly (Prihatin, 2021).

By presenting speakers who are experienced in the field of research methodology and academic writing, this program not only provides theoretical insights, but also practical tips and strategies that can be applied immediately. Through this activity, Universitas Dirgantara Marsekal Suryadarma is committed to supporting the development of intellectual capacity and academic productivity of postgraduate students, so that they are able to compete at the national and international levels in academics and research.

2. METHOD

This educational event was held online using the Zoom application for 2 hours. In the session, speakers who are experienced in the field of writing and publishing scientific articles discussed in detail the steps for writing scientific articles, starting from the initial stages such as formulating problems and compiling article outlines, to the final stage in the form of article submission techniques to reputable journals. The material was delivered systematically, equipped with practical examples and application guides for each stage. Participants were also allowed to ask questions and discuss interactively with the speakers so that they could understand the article writing process more clearly and be able to apply it in their own work.

A add up to of 30 student post graduated from Universitas Dirgantara Marsekal Suryadarma took part in the instructive movement and showed incredible eagerness during the session. They effectively inquired questions to the speakers, particularly approximately the steps to type in great scientific papers and methodologies to extend the victory rate of distribution in worldwide diaries and minimize the plausibility of dismissal. I did the same. The questions inquired were assorted and extended from choosing a significant investigative subject, and methods for composing an appealing theory, to tips for altering the organizing and composing fashion to international journal rules. This eagerness reflects the have to progress in their scholastic aptitudes and a solid want to contribute to the worldwide logic community.

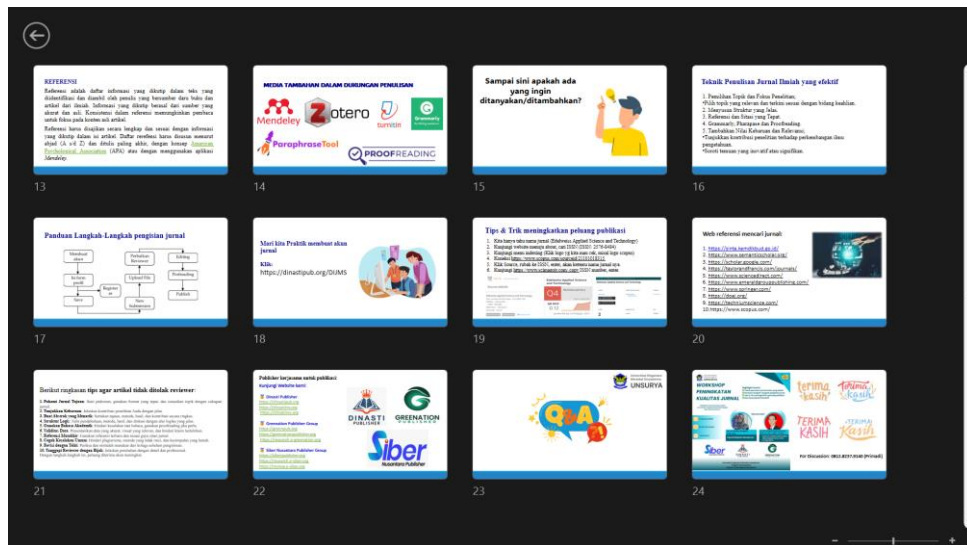


Figure 3 Presentation Materials

3. RESULT AND DISCUSSION

Result

The instructive occasion "Education Methods On How To Write Quantitative And Qualitative Articles For Postgraduate Students" was effectively executed with 30 postgraduate understudies from Universitas Dirgantara Marsekal Suryadarma. Based on the assessment of the action, a few critical focuses come about of the usage of this occasion:

1. Increased Understanding of Participants

As many as 70% of members expressed that they caught on to the contrasts between quantitative and subjective strategies after going to this occasion. The fabric displayed by the speakers was considered pertinent and given unused experiences in the steps for composing logical articles.

2. Practical Skills Gained

Members appeared expanded capacity in organizing articles, handling information, and composing investigations of inquiries about what comes about clearly. This will be seen from the brief assignments given during the session, where most participants were able to compile a piece of diagram well.

3. Readiness to Submit Articles

Most members expressed that they were more sure in planning articles to be submitted to diaries after getting common direction from the speakers concerning the accommodation preparation, choosing the proper diary, altering the diary format, and dealing with corrections.

Discussion

The conclusion of this instruction appears that the strategy of conveying fabric by means of Zoom with a length of 2 hours is very successful in giving fundamental understanding to members. Intelligent dialogs conducted by speakers are also a vital calculation that makes a difference in members to more effectively get the fabric displayed.

In any case, there were a few challenges distinguished amid the execution of the occasion. To begin with, the constrained execution time made a few members feel the require for a follow-up session to talk about certain angles in more profundity, such as quantitative information examination utilizing measurable computer programs or subjective information translation. Moment, the constrained introductory capacity of members to type in logical articles was moreover an impediment, so fundamental materials such as how to form abstracts and presentations still required to be rehashed.

From these comes about and talks, it can be concluded that this instruction encompasses a positive impact on moving forward participants' understanding and abilities. In the future, it is proposed that this occasion be prepared with more seriously viable preparing sessions and personal assignments that can offer assistance to members who specifically apply the fabric that has been learned. Hence, the quality of articles created by postgraduate understudies of Universitas Dirgantara Marsekal Suryadarma can be more ideal and competitive at the national and universal levels.

This instructive occasion points to supplying in-depth understanding and down-to-earth aptitudes to members, particularly postgraduate understudies, in composing scientific articles based on quantitative and subjective approaches. The quintessence of this movement can be summarized within the taking after primary focuses:

1. Academic Competency Improvement

This event is designed to help participants understand the systematic steps in writing scientific articles, starting from problem formulation, data collection, and analysis, to conclusion. Thus, participants are expected to be able to produce quality articles that are per academic standards.

2. Understanding Research Methodology

Participants are given education on the fundamental differences between quantitative and qualitative approaches, including their characteristics, advantages, and limitations. This aims to enable participants to choose the method that best suits their research needs.

3. Mastery of Writing Techniques

This event emphasizes practical aspects, such as techniques for compiling abstracts, introductions, methods, results, and discussions, as well as how to present data visually, such as tables, graphs, and diagrams.

4. Development of Publication Skills

In addition to the technical aspects of writing, this event also equips participants with strategies for publishing scientific articles in reputable journals. This includes journal selection, manuscript submission procedures, and handling revisions from reviewers.

5. Increased Academic Confidence

With a better understanding of how to write and publish scientific articles, participants are expected to be more confident in contributing to the academic community through quality and relevant research.

Through this event, it is expected that participants will not only gain technical skills, but also be able to build a critical, analytical, and responsible scientific mindset. Universitas Dirgantara Marsekal Suryadarma is committed to continuing to support postgraduate students in developing their academic abilities in order to create scientific works that are useful for the wider community.

4. CONCLUSION

The "Education Methods On How To Write Quantitative And Qualitative Articles For Postgraduate Students " instruction effectively gives understanding and down-to-earth aptitudes to 30 postgraduate understudies of Universitas Dirgantara Marsekal Suryadarma concerning the precise steps in composing logical articles. With the conveyance strategy carried out through the Zoom application for 2 hours, the asset individual was able to comprehensively clarify the method of composing articles, beginning from defining issues and handling information, to how to yield articles to trustworthy diaries.

The comes about of this action appeared to an increment in participants' understanding of the contrasts between quantitative and subjective strategies, the capacity to structure articles well, and status to distribute their logical works. Be that as it may, the constrained execution time and the requirement for more in-depth fabric are challenges that ought to be considered for similar programs in the future.

By and large, this occasion has a positive effect in supporting the scholarly capacities of postgraduate understudies and is a critical step in planning for them to deliver quality logical works. For supportability, it is prescribed that this program be taken after by preparing sessions

and seriously honing to guarantee a more viable and focused application of the fabric.

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