

## Mendeley Software Training in Improving the Quality of Scientific Articles for Private Higher Education Lecturers

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ARTICLE INFO	ABSTRACT
<p><i>Article history</i> ..... Received : Jan 2022 Revised : Feb 2022 Accepted : March 2022 Published : April 2022</p> <p><i>Keywords</i> Mendeley Software, PKM, Scientific Articles.</p>	<p>One of the things that makes a quality written work is related to the element of plagiarism which often occurs as a result of not using a reference manager in citations. In managing references sourced from books or journals, it can be done with the help of several available software/applications, such as Mendeley. Existence software such as Mendeley which can be used to assist with citation writing, allows writers to process their reference documents. Based on the results the implementation of the activity shows that there is an increase in the knowledge and abilities of the participants related to the Mendeley Application before and after the training. However, in terms of the ability to install applications on laptops and Ms. Word as well as using the Application Mendeley to make a bibliography some participants have not been able to master maximum (100%), so it must still be assisted and directed even though the training has been completed implemented. The problem-solving method used is based on the approach management in increasing production and sales results in 3 (three) stages of program implementation, namely preparation, implementation, and evaluation.</p>

### INTRODUCTION

Currently, competition in the world of education, especially higher education is very tight. Where universities managed by the community are competing to build quality universities, to compete competitively with other institutions. Quality indicator from the university following the existing tri dharma at the university. It fits with changes in the criteria for assessing higher education accreditation. Where is one of the assessments? is lecturer productivity in writing. So universities have to change the culture in that context comprehensively. All existing changes need to be the attitude to keep up with the times to continue to exist. According to the result of the research that developments in the world of education in Indonesia are currently increasingly rapidly in cultural change (Asbari et al., 2019; Asbari & Novitasari, 2020; Pebrina et al., 2022; Purwanto; et al., 2019; Purwanto, Asbari, Prameswari, et al., 2020; Purwanto, Pramono, Asbari, et al., 2020). So organizations are required to have a culture that distinguishes them from other similar organizations.

Accreditation is the determination of quality standards and assessment of an educational institution (higher education) by parties outside independent institutions. Accreditation also means an effort by the government to standardize and guarantee the quality of college alumni so that the quality of graduates between universities is not too varied and according to needs work. According to Arifudin (2019) that accreditation is an important asset for determining the position of a higher education institution or study program at the level of management competition with higher education institutions and other study programs and is a benchmark for institutions using university program products to ensure graduates This is feasible because it results from a well-controlled management process. So Accreditation is very

necessary for the standard measure of the quality of education in a country's higher education institutions, where every university must be able to improve the quality and competitiveness of its graduates and can guarantee the teaching and learning process at the university, and as a reference to provide information about the readiness of a university to carry out teaching and learning activities according to the standardization provided by the government in the process of globalization of education for global competitiveness in the future.

The obligation to do research for a lecturer is a must based on binding regulations (Purwanto, Asbari, & Julyanto, 2021; Purwanto, Pramono, Bernarto, et al., 2020). The renewal of knowledge must appear in colleges with one of the lecturers doing research not only to fulfill the final task but to build a research-based classroom and support quality in higher education. So according to Tanjung (2019) that many benefits can be obtained from research activities carried out by lecturers in the framework of the development of science and the progress of this nation.

An educational institution always strives to advance and develop to maintain its reputation and improve achievements. This will affect the view of the general public and the world of education. To become an institution of advanced education, according to Sofyan (2020) that there are several indicators of achievement seen, including the work of lecturers and lecturers who are recognized by academics one of them is in the form of writing as a written work/scientific work that can be also used by other people, for example by the government in setting a policy concerning the interests of the general public. Thus, scientific works that are produced should use language that is following standard rules so that the core I want to make easier to understand.

Besides, most scientific works must be the result of personal thought lecturers are added with several scientific works/books by other people that can be used as additional references to guarantee the quality (Purwanto et al., 2019; Purwanto, Asbari, & Santoso, 2021). According to the imam (Nadeak, 2020), several weaknesses often occur in writing scientific papers by beginners, including others, making less effective paragraphs, writing/sentences that are less easily understood, less precise how to make quotations and how to write references that are used. In general, according to (Arifudin, 2020) that one of the things that makes quality writing, which is related to the element of plagiarism that often occurs as a result of not using the reference manager on citations. Therefore, lecturers and lecturers, in particular, must be equipped with knowledge about how to do good citations so that can produce good and quality scientific works to be published in journals national/international. Meanwhile, from various types of references that are currently very easy can be found, lecturers must have a good ability to search, find and then determine the appropriate and appropriate references to use in writing their thesis/final project/scientific work. Because this is also one of the points important in assessing the quality of scientific work (Purwanto, Asbari, Santoso, et al., 2020, 2021).

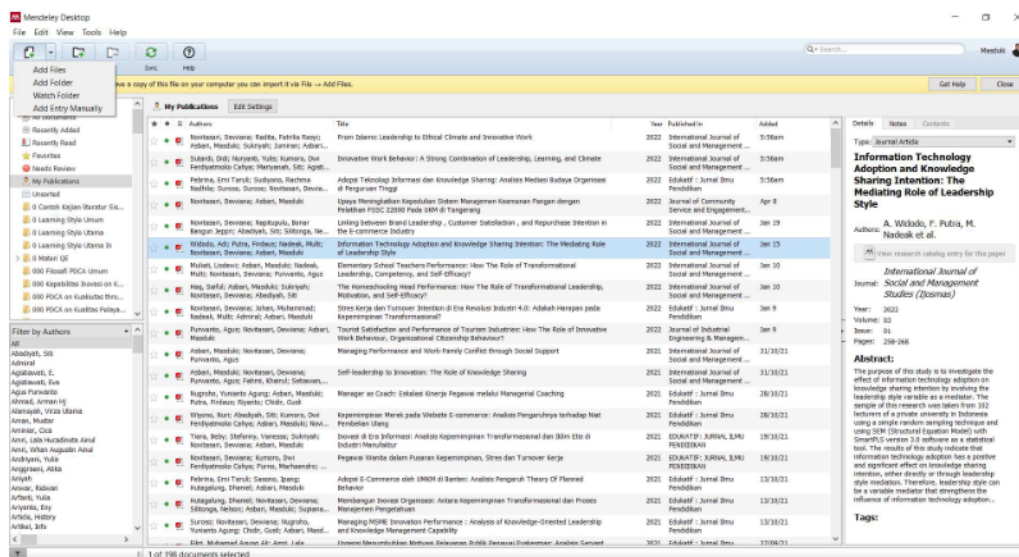


Figure 1. Interface aplikasi Mendeley

### Benefits of Community Service

The benefits of community service according to Tanjung (2020) that to provide solutions to the community to improve the level of community difficulties. Meanwhile, according to Siregar (2021) that the benefit of service to the community is to provide alternative ways of carrying out various activities that have an impact on community life.

From this community service activity, it is expected that lecturers in particular can further optimize the quality of scientific articles with Mendeley Software training in quoting every scientific work made by lecturers both on assignments and on final assignments namely the script. By using Mendeley lecturers can manage reference writing easily. As a reference manager, lecturers can record information each source file references to Mendeley once, then it's just a matter of calling/referring These references are many times in the body of the article. According to Irwansyah (2021) that this is very easy to minimize the level of plagiarism in every written work that is made by lecturers. It is hoped that through this training lecturers can produce scientific works and be able to write citations and bibliography correctly.

### Solutions and Activity Targets

Community service activities in the form of "Inner Mendeley Software Training" Improving the Quality of Scientific Articles for Lecturers", as an effort to help lecturers can manage writing references easily. It can provide benefits and the solutions are as follows:

- 1) Manage writing references easily
- 2) Simplify the quoting process
- 3) Minimize writing plagiarism
- 4) Following the provisions of submitting to national journals

## IMPLEMENTATION METHOD

Methods in implementing community service programs carried out in assisting lecturers in using Mendeley manager references carried out with several stages of program implementation, namely as follows:

### Early stages

At this stage according to Wahrudin (2020) prepare for all activities of community service. The PKM team did all the preparations for the implementation of activities, starting from noting the number and readiness of participants (lecturers) who will take part in training and creating a Whatsapp Group to facilitate communication and distribution of materials before and during the training. In addition, at this stage the PKM. the team prepare PowerPoint material about the Mendeley Application which will be delivered from the introduction of the application, its benefits, how to install it to how to use it on a laptop.

### Implementation Stage

At this stage according to Juhadi (2020) that all activities of service society are according to the initial stages. This stage is carried out by delivering the good material on how to install and use the Mendeley application and practice guidance. The stages of delivering the material are done by way of presentations using PowerPoint, after that the PKM Team explained and showed the steps to install and use the Mendeley application in Ms.Word. After that, guidance training/practice, where before the start of the activity the participants (lecturers) have been given information first through the WaG related to the planned activity by explaining in detail slowly and gradually each step so that the activity participants can understand and follow easily.

### Evaluation Stage

This stage according to Mayasari (2021) is a stage to assess the extent to which the implementation of community service and indicators of achievement of activities felt by society. At this stage, the PKM team evaluates the implementation activities by distributing a questionnaire via a google form consisting of several questions related to the development of

lecturers' abilities and responses as participants in the using the Mendeley app. The results of the evaluation are also strengthened by carrying out interviews by the PKM Team with each participant.

## RESULTS AND DISCUSSION

Based on the results of the Lecturer's community service with the Software Training program Mendeley in Improving the Quality of Scientific Articles for Lecturers, the results can be explained and program outputs and their impact on partner changes during the mentoring process increased significantly. This can be seen from the various stages of community service carried out, namely as follows:

### Early-stage

At this stage, the PKM Team in addition to providing material about the Mendeley application, participants are also given knowledge about the ethics of scientific publications and plagiarism. Plagiarism is an activity using other people's ideas/ideas/writing without writing down the source/person who created the idea/idea/writing. Therefore, One way to prevent plagiarism is to write down the source/author's name from the writings quoted either in part or in whole in the bibliography. The use of the Mendeley application, in this case, will be very helpful for participants who are still status as a lecturer in doing lectures and or reports end/thesis.

PowerPoint material about the introduction and how to download the Mendeley application has been first shared with WaG so that PKM activity participants can read and prepare before taking part in the activity. Based on the results of the PKM Team interviews with all participant's activities, information was obtained that none of the participants had the application Mendeley on the laptop, so Tim will start the activity by showing and explaining how to download the Mendeley application. Technically the steps to do Download the Mendeley application, namely:

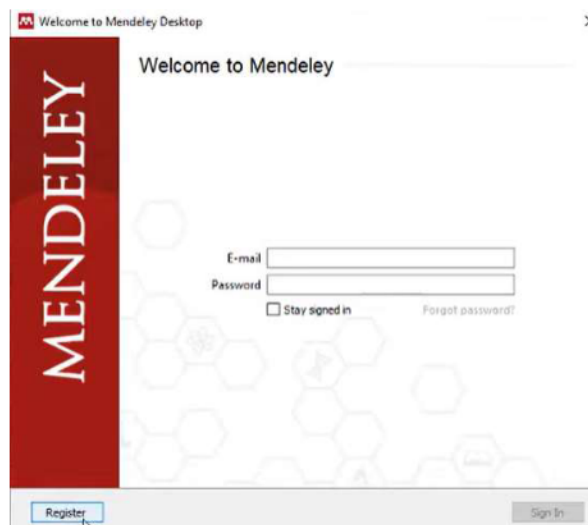


Figure 2. Cara akses Mendeley

After the Mendeley application was installed on all participants' laptops, the PKM Team continued activities with the agenda of delivering the next material, namely how to use the application Mendeley on laptop/Ms. Words. Technically steps to use Mendeley are as follows:

- 1) Install the Mendeley application first
- 2) Open Mendeley after it's installed
- 3) Once installed, there will be a command to integrate Mendeley with Ms. Word or



- 4) Connect Mendeley with Ms. Word to start working by clicking the menu Tools > Install Ms. Word Plugins.
- 5) To check Ms. Word is already integrated with Mendeley, select the References menu
- 6) Once Mendeley is integrated and ready to use, a few steps to enter the reference

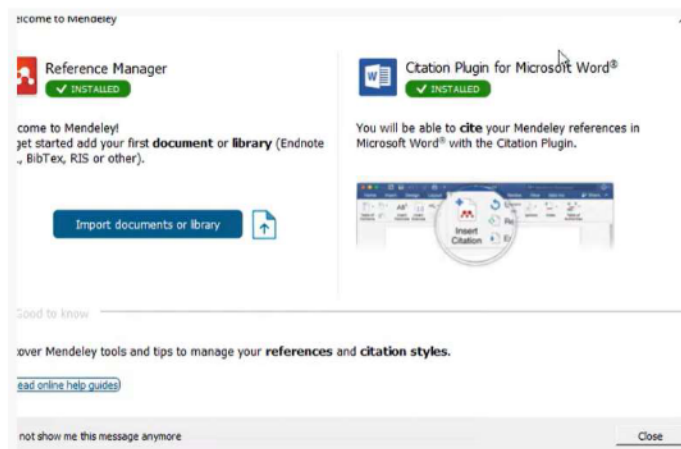


Figure 3. Tanda mendeley sudah terinstal

#### Implementation Stage

Before conducting training/practice guidance using the Mendeley application, participants' PKM activities will be given knowledge about techniques/how to make good quotations done directly or indirectly. Knowledge regarding this quote is very important, considering that this application will also refer to the name of the owner of the article/book/reference his work will be referred to or cited in the lecturer's/author's scientific work. Based on the experience that occurs in the field, the most mistakes done by writers among lecturers is when citing an article, but then writing down the name of the author quoted by the owner of the manuscript by entering the name listed in the bibliography. It often happens that the owner of the script has already changed the editorial of the quoted part so that it is not the same as the sentence he quoted. Errors like this must be corrected by lecturers with knowledge of citation techniques in general or those adapted to the technique used by each campus. Because, a university has separate provisions regarding citation techniques that apply to each campus so that In addition to mastering the use of Mendeley, it is also very important for lecturers to Pay attention to the applicable citation technique before making a quote.

Some colleges have guidelines governing citation techniques, some distinguish between direct quotes that are less than 5 (five) lines and those that are more than 5 (five) lines. Several questions were asked by the PKM activity participants related to techniques quotes from other articles/books/references, so the PKM Team provides some examples of how to quote through articles/books/references so that participants can understand and try to do a good quote. After the citation technique is understood by the PKM activity participants, then participants are allowed to use the Mendeley application according to the steps/instructions that have been given.

#### Stage of Evaluation of the Implementation of PKM Activities

PKM activities were carried out in 4 meetings with details of Meetings 1 and 2 used to deliver the material, while meetings 3 and 4 are used to carry out training/practice guidance so that all participants can use Mendeley's application following the objectives of PKM activities. During 4x participant meetings showed a very high interest in learning, as evidenced by the questions asked during the activity or in the WaG that had been made. To see the development of the ability and understanding of participants, as well as evaluation before and after the PKM activity, was carried out, all participants were asked to fill out the questionnaire that was distributed via google forms.

## CONCLUSIONS AND SUGGESTIONS

PKM activities to provide training on the use of the Mendeley application for lecturers in compiling a bibliography in scientific works can be carried out by good and according to plan. Participants are enthusiastic and motivated to take part in the training because of their knowledge. The results obtained from this training will greatly assist participants in making scientific papers either in the form of lectures or assignments / final reports/theses. More than 90% of participants were already able to download and install this application and plug-in, Ms. Word, independently. However, some lecturers still have difficulty using the application to create a bibliography. The suggestions that can be given for the implementation of the community service program are about the use of the Mendeley application for lecturers in compiling a bibliography, are as follows:

- 1) To be consistent and keep practicing using Mendeley in the process citation of each essay.
- 2) It takes enthusiasm to keep learning to keep getting used to using Mendeley in citing each essay.

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