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Forewords

Praise and gratitude to Allah SWT, because of Allah's love for us so that we are still given a long life and can carry out our various daily activities. May all our activities become our acts of worship, Aamiinnn

We are also be proud that the number of submitted manuscripts is quite large, but only a few are acceptable and worthy of publication. This means that Jurnal Serambi Ilmu has become one of the scientific publications that are considered by experts and education enthusiasts.

For this reason, Jurnal Serambi Ilmu is committed to continuing to maintain the quality, service and discipline that applies in scientific publications.

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GARUDA
GARBA RUJUKAN DIGITAL



Development Of Olericulture Seed Cultivation Program Guidebook As An Effort To Improve Students' Industrial Agriculture Insights

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Abstract

This study aims to assess the validity of the program guidebook in improving students' industrial agricultural insights through training in cultivation of olericultural plants. The research method used is research and development with the ADDIE development model. The ADDIE development stage consists of the analysis stage (analysis), the planning stage (design), the development stage (development), the implementation stage (implementation), and the evaluation stage (evaluation). The data analysis technique used was descriptive quantitative, with the data collection method using a validation questionnaire. The results of the guidebook validation show that the total percentage of all aspects of the three validators is 83.75%. This shows that the results of the eligibility criteria for the program guidebook that has been prepared are in the very feasible category and can then be implemented in community service activities regarding the olericulture cultivation program to improve students' industrial agricultural insights.

Keywords : handbooks, olericulture seed, industrial agriculture

INTRODUCTION

Plants are organisms that are deliberately planted and maintained by humans for use. The meaning of plants is different from plants (Zega *et al.*, 2023). Almost every plant is a plant, but specifically the meaning of a plant is a plant that is deliberately planted to obtain its economic value. Hidayat dan Hidayat (2020) stated that agricultural crops are all crops managed by humans to obtain various benefits, one of which is economic benefits. One of the distinctive properties of agricultural crops is their management. The management of agricultural crops during their lives is managed to

harvest the results even though they have a level of management that is not intensive, such as crops in shifting land and yard agricultural systems (Hasibuan dan Nawawi, 2023).

Oktaviani (2023) stated that horticulture is a branch of agricultural science that covers the whole and discussion of crop management in the garden. One type of horticultural crops is vegetable crops (Olericulture). Vegetable plants (Olericulture) are parts of plants in the form of stalks and leaves, young stems or tuberous weevils (Oktaviani, 2023). There are some vegetables that can be eaten directly raw, commonly called vegetables. While others are processed by boiling, frying, sauteing, and so on.

Olericulture is a type of horticultural plant in the form of vegetables and is easily found in the surrounding environment. Vegetables are one type of plant that is generally processed by the community to be used as food ingredients (Reza dan Hamida, 2022). Vegetables that have a relatively short lifespan in the cultivation process must meet several requirements such as the type of agricultural crops that must be in accordance with the climate at that time, the selection of tough, good and old enough seeds, effective fertilization, regular watering once a day, control of pests, diseases, and weeds and so on (Arwati, 2018). Thus, there is a need for plant cultivation guidelines as brief information about the cultivation of olericultural plants that are easy to understand with attractive visuals (Arumingtyas *et al.*, 2021).

The yard is the land around the front, next to or behind the house. The yard can be used as a living warehouse that can be equipped with basic food needs, such as rice, corn, and sufficient tubers, and can also grow various traditional medicinal plants. Making the best use of yards can help reduce household expenses, and also increase income through the sale of garden products (Anwar, 2021). One plant that is easy to grow and has expensive yields is olericulture. Horticulture can be defined as the agricultural science related to the production, use and development of vegetables, fruits and decorative plants. However, only the types of vegetable crops discussed in this article or so-called olericulture (Bulawan *et al.*, 2022).

SD Jomerto 02 is one of the elementary schools located on Jalan Branjangan 37 Jember and is currently still accredited B. Based on observations and discussions with partners related to agricultural issues, the school has agreed to become a partner in this community service activity, and plays a role in preparing land for the olericulture planting process and mentoring students. In terms of social and cultural life, the community around SDN Jomerto 02 socializes well between school residents. The quality of services provided by schools to support activities and learning processes is also quite good. However, there is still a lack of empowerment of the surrounding conditions that are a little neglected. This was also supported by the results of interviews with the principal and teachers at the elementary school, stating that the school had never implemented planting training in terms of its students. In fact, the advantage of the school is that it is close to rice fields and plantations that can support entrepreneurship training in the industrial agricultural sector. In addition, the average student's parent livelihood is that of a farmer. Thus, training and mentoring olericultural plants can be cultivated by looking at the existing potential. Olericulture is a plant with

a short planting period and is not a seasonal plant, so it is suitable for cultivation in the school (Anwar, 2021).

The contribution of this research is to combine education and agricultural science as an effort to broaden students' horizons about industrial agriculture. The results of this research activity will later become material for carrying out community service activities on olericultural cultivation training. This is in line with the results of community service activities related to production aspects in the planting process and management aspects in the form of bazaar activities resulting from planting (Nuraini dan Mulyono, 2022). Based on the description of the problem, the researcher compiled a program guidebook to be used to carry out community service activities with the specific aim of increasing the insight of industrial agriculture and the entrepreneurial spirit of SD Jomerto 02 Patrang students through olericultural seed cultivation training. The purpose of this study is to examine the validity of the guidebook for inquiry-based olericultural seed cultivation programs as an effort to increase students' industrial agricultural insight and entrepreneurial spirit.

METHOD

The method used in this study is research and development using the ADDIE development model (Sugiyono, 2020). The location of the research was conducted at SDN Jomerto 02 Patrang, Jember. The explanation of the stages of the ADDIE development model, namely:

1. Analysis Phase (Analysis)

The analysis stage is the first stage that aims to analyze local problems and potentials so that a training program can be carried out to improve industrial agriculture insights for students at SDN Jomerto 02 Patrang based on observations, interviews, documentation, and literature reviews.

2. Planning Phase (Design)

At this planning stage, it aims to design a program manual that can be a guide for students in planting activities. This program manual is based on observations and literature review.

3. Development Stage (Development)

The development stage is a stage that aims to produce a program guidebook related to how to cultivate olericultural plants. At this stage, validation is also carried out by experts to determine the validity in terms of readiness and material in the program manual.

4. Implementation Phase (Implementation)

The implementation stage was carried out through piloting the program manuals for students of SDN Jomerto 02 Patrang. The program manual will be used during the training process in an effort to improve students' industrial agricultural insight and entrepreneurial spirit.

5. Evaluation Phase (Evaluation)

The evaluation stage is the final stage of designing the program manual after implementation. The stages of research carried out are described in **Figure 1** below.



Figure 1. ADDIE model procedure

The instrument used to assess the feasibility of the program guidebook to be implemented for grade 4 and 5 students of SDN Jomerto 02 Patrang, using a questionnaire consisting of 5 indicators with a likert scale of 1-4, namely 4 (very feasible), 3 (feasible), 2 (less feasible), and 1 (not feasible). After the data is obtained, to calculate the percentage score can use the following equation 1.

$$Hasil = \frac{\text{Total score obtained}}{\text{Maximum score}} \times 100\%$$

Furthermore, to find out how feasible the media is, you can use the eligibility category based on the criteria, are shown in Table 1 below.

Table 1. Validity criteria

Presentase	Validity criteria
75% < p ≤ 100%	Very good
50% < p ≤ 75%	Enough
25% < p ≤ 50%	Not good
0% ≤ p ≤ 25%	Not very good

(Sugiyono 2020)

RESULT AND DISCUSSION

Community service activities are a form of the Tri Dharma of Higher Education to empower the community (Ekasari *et al.*, 2023). The development of a program guidebook that will be a guide for students in carrying out planting activities in an effort to improve students' industrial agricultural insights at SDN Jumerto 02 Patrang has been carried out from May to July 2023.

This book consists of title pages, introductions, table of contents, stages of the program, material about olericultural plants, as well as the drafting team. Display of the development results as shown in Figure 2 below.



Figure 2. Program manual view

Figure 2a is the front and back pages of the book. Figure 2b is an introduction or introduction. Figure 2c is a display of the book's table of contents consisting of 51 pages. The 2d image is a view of chapter 1 explanation of the stages of the program.

Figure 2e is a display of the contents of the material on how to grow various types of olericultural plants. Figure 2f is what the drafting team looks like. Then, before the book is given to students, the book will first be validated by 3 media and material experts. There have been several revisions of the validator assessment. The results before and after the revision are shown in Table 2 below.

Table 2. Revised results of validator assessments

Sebelum direvisi	Setelah direvisi
A. Pelaksanaan Program Budidaya Olerikultura Pelaksanaan kegiatan Program Budidaya Olerikultura dimulai dari kampus dan dilanjutkan ke sekolah atau tempat pengabdian. Adapun langkah-langkah pelaksanaan Program Pengabdian Mahasiswa Berdesa (PROMAHADESA) pada Lembaga Penelitian dan Pengabdian Kepada Masyarakat (LP2M) Universitas Jember dalam bentuk bagan seperti pada Gambar 1 berikut.  Gambar 1. Tahapan Program Pelatihan Budidaya Olerikultura	A. Pelaksanaan Program Budidaya Olerikultura Pelaksanaan kegiatan Program Budidaya Olerikultura dimulai dari kampus dan dilanjutkan ke sekolah atau tempat pengabdian. Adapun langkah-langkah pelaksanaan Program Pengabdian Mahasiswa Berdesa (PROMAHADESA) pada Lembaga Penelitian dan Pengabdian Kepada Masyarakat (LP2M) Universitas Jember dalam bentuk bagan seperti pada Gambar 1 berikut.  Gambar 1. Tahapan Program Pelatihan Budidaya Olerikultura
Improvements to image captions to use smaller fonts	Improvements to the spelling of the word "every" to "in every"
• Penanaman Setelah dilakukan pelatihan penanaman, mahasiswa menentukan dan menyiapkan lokasi tempat penanaman yang tepat sehingga siswa dapat mempraktekkan proses penanamannya secara langsung. Setelah semua sudah disiapkan, siswa melakukan proses pelaksanaan penanaman sesuai dengan buku pedoman yang telah dijelaskan sebelumnya. Hal ini dilakukan selain untuk mengetahui pemahaman siswa terkait menanam, menanam juga merupakan bentuk upaya dalam mengajak masyarakat Indonesia untuk menanam tanaman. Dengan demikian, diharapkan siswa juga dapat menerapkan penanaman kembali di rumah masing-masing sebagai bentuk kepedulian dan bentuk pengurangan kebutuhan sehari-hari.	• Penanaman Setelah dilakukan pelatihan penanaman, mahasiswa menentukan dan menyiapkan lokasi tempat penanaman yang tepat sehingga siswa dapat mempraktekkan proses penanaman tanaman Olerikultura secara langsung. Setelah semua sudah disiapkan, siswa melakukan proses pelaksanaan penanaman sesuai dengan buku pedoman yang telah dijelaskan sebelumnya. Hal ini dilakukan selain untuk mengetahui pemahaman siswa terkait menanam, menanam juga merupakan bentuk upaya dalam mengajak masyarakat Indonesia untuk menanam tanaman. Dengan demikian, diharapkan siswa juga dapat menerapkan penanaman kembali di rumah masing-masing sebagai bentuk kepedulian dan bentuk pengurangan kebutuhan sehari-hari.
Improved explanation of the sentence "planting" to replace the word "nya" by making the type of plant, namely olericultural plants.	

The results of testing by validators are in the form of responses and questionnaire assessments, then the results are analyzed and product revisions are carried out in accordance with comments and suggestions from validators. The data results are shown in **Figure 3** below.

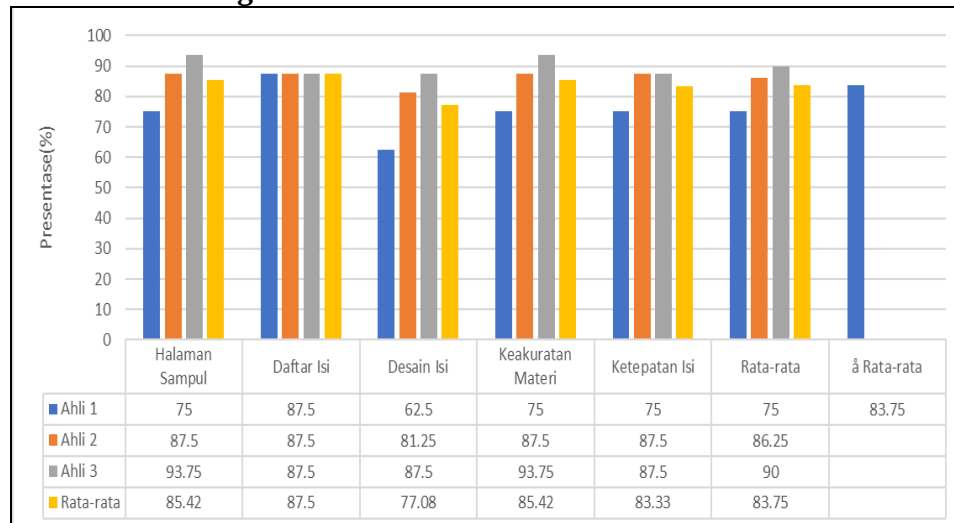


Figure 3. Percentage of program manual validation results

Figure 3 shows that the presentation of each aspect is above the average of 75.00%, so that the total percentage of all aspects from the three validators is 83.75%. Based on the media eligibility criteria table, these results are in the "very good" category after product revisions. The validation results on each indicator are in the very decent category. The use of images on the cover page is in accordance with the theme of the book, the type and size of the font, and the image chosen is attractive. The table of contents that has been compiled has a match with the contents of the book. The content design is also in good order between subtopics, image illustrations, and placement of layout elements. The accuracy of the material shows that the material that has been developed is based on references to relevant literature studies and researchers, so as to facilitate the improvement of industrial agricultural insight and entrepreneurial spirit for students. This is because the material presented is in accordance with the concept of olericultural cultivation, and the presentation of the concept is in accordance with the truth of the material, and does not cause much interpretation. Furthermore, related to the accuracy of the content shows that this guidebook can be used by elementary school students because the language used is easy to understand and the design used adjusts to the character of students, so this can attract students to learn more about olericulture cultivation.

There are obstacles experienced by researchers in compiling this program manual. In general, some references related to plants are not easily understood by students, so researchers experience problems in compiling the contents of the book. In addition, in terms of design, researchers experienced obstacles to match themes

that fit elementary school students. Some of the problems above, become obstacles for researchers during the preparation of program manuals.

Based on these obstacles, researchers strive to maximize performance by finding the right solution. First, researchers tried to find various references related to the right way of planting. Second, researchers also try to sort out the right words so that they can be easily understood by elementary school students. Olericultural plants are of various types, so researchers chose olericultural plants in the form of vegetables because they have a relatively short lifespan (Reza dan Hamida, 2022). Rizkiaini *et al.*, (2023) stated that olericultural cultivation activities have the potential to increase knowledge. Nasrullah dan Reza (2020) also states that the manual is a guide for the user. The manual is very useful to simplify and understand the program according to the objectives prepared. Thus, the guidebook for this olericulture cultivation training program can then be used in community service activities for olericultural seed cultivation as an effort to increase industrial agricultural insight and entrepreneurial spirit of SDN Jomerto 02 Patrang students.

CONCLUSION

Based on the research that has been done, it can be concluded that the validation results show that the presentation of each aspect is above the average of 75.00% and the total percentage of all aspects of the three validators is 83.75%. This shows that the results of the validated program manual eligibility criteria are in the “very good” category with several product revisions from validators.

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