
Output Based Learning (OutBaL): A Complete Research Learning for Health Student

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ABSTRACT

Output Based Learning (OutBaL): A Complete Research Learning is structured as a complete innovative approach to research learning, which does not only end up with research reports, but continues until the realization of research outputs in the form of scientific publications, such as journal articles, proceedings or monograph books are realized. With the publication of student research findings, the innovations found can be used directly by the community, both for application and further research. Complete learning to output like this is also expected to have a big positive impact on the development of higher education, both in terms of student and lecturer performance.

Keywords: output based learning; complete research learning

INTRODUCTION**Background**

Students' final assignments in the form of research provide opportunities for them to apply the science and technology they have acquired during the learning process, using logical and systematic scientific methods so as to produce innovative works that are expected to be utilized by the community. Thus, ideally, this learning does not only end in the completion of research reports, but until the realization of scientific publications such as journals, proceedings, monograph books and so on.

Until now, there have been many universities that require undergraduate students to publish their research results, but in general they carry out scientific publications independently outside the guidance of lecturers, in the sense that they are no longer part of the research learning process in the curriculum. With the lack of experience regarding the publication of research, then of course this is very burdensome for students.

Based on the above background, it is necessary to create an innovative new learning approach that can help students to realize research outputs in the form of scientific publications smoothly. Therefore, it was agreed to add new lessons in the curriculum as a continuation of the student's final project, specifically to facilitate students in conducting scientific publications as the output of their research activities. Therefore, this new lesson is implemented with a new approach called "Output Based Learning (OutBaL)", which shows that this learning sets OUTPUT as the ultimate goal.

In this research learning approach, the lecturers as mentors provide systematic and intensive guidance starting from the writing of manuscripts, the submission process in journals, the revision process, editing and publishing. To support the success of these activities, the university has collaborated with several journals that provide support for students to publish scientific papers for free.

Purpose

By implementing the OutBaL approach in research learning, students are expected to be able to:

1. Write a manuscript for publication in a journal/proceeding or a draft monograph
2. Submitting manuscripts in journals / proceedings or drafts of monographs at scientific book publishers

3. Revise the manuscript or draft of the monograph in accordance with the corrections of the editor and reviewer
4. Editing manuscripts or drafts of monographs together with the editor
5. Monitoring the publication process starting from the completion of the proofreading process to the publication of fulltext articles and DOI
6. Register and monitor the index of articles / monographs and authors on Google Scholar

Benefit

The implementation of the OutBaL approach in research learning is expected to produce the following benefits:

1. Students will graduate with complete research competence
2. The track record of publications can be an added value for graduates to start their careers
3. Supervisors can accelerate the achievement of scientific publications
4. An increase in the climate of positive academic interaction between lecturers and students
5. Improving the achievement of university scientific publications
6. Improving the ranking of universities, for example in the accreditation system

IMPLEMENTATION

The Setting

The OutBaL approach can be implemented at any university, as long as it meets the following inclusion criteria:

1. Implementing the student's final project policy in the form of a research report
2. Can provide mentors
3. Willing to cooperate with scientific journals and/or publishers

Time

OutBaL can be carried out within 1 semester, starting from the process of writing a draft until the publication of an article or monograph book. However, this duration can be modified according to conditions, such as the number of students who are too many, the minimum number of lecturers as supervisors, and so on.

Facilities

OutBaL requires the following supporting facilities:

1. Hardware, such as computers, internet networks, and others
2. Software includes web browsers, word processors, statistical software, pdf creators, and so on
3. Social media that can be used by communicating efficiently, such as Facebook, Whatsapp, Telegram, and so on
4. E-journals and/or scientific publishers that can cooperate for free. In this case, free support can be obtained from:
 - a. "Health Notions", an e-journal that publishes scientific papers in the health field, published by the Humanistic Network for Science and Technology (HNST) ⁽¹⁾
 - b. "Aloha International Journal of Health Advancement (AIJHA), an e-journal that publishes scientific papers in the health field, published by the Alliance of Health Activists (AloHA) ⁽²⁾
 - c. "Aloha International Journal of Multidisciplinary Advancement (AIJMU), an e-journal that publishes scientific papers in the health field, published by the Alliance of Health Activists (AloHA) ⁽³⁾
 - d. "Aloha International Journal of Education Advancement (AIJEA), an e-journal that publishes scientific papers in the health field, published by the Alliance of Health Activists (AloHA) ⁽⁴⁾
 - e. "Aloha International Journal of Management Advancement (AIJMA), an e-journal that publishes scientific papers in the health field, published by the Alliance of Health Activists (AloHA) ⁽⁵⁾
 - f. Alliance of Health Activists (AloHA) which facilitates the publication of monographs ⁽⁶⁾

Human Resources

The implementation of OutBaL requires the active role of human resources as follows:

1. Students who have completed research reports
2. Lecturers as supervisors from related universities
3. Editors as supervisors of scientific journals or publishers
4. The reviewers as supervisors of scientific journals or publishers

Strategy

The implementation of OutBaL is carried out with a mentoring strategy. The mentoring process is carried out continuously in one semester, in the sense that it does not use a weekly schedule and the like. Students can consult at any time based on agreement with their respective supervisors.

Details of Activities

The implementation of OutBaL is carried out with details of the following activities:

1. Students register online at e-journals or scientific publishers that have collaborated, with the guidance of lecturers and/or journal editors/publishers
2. Students learn the aims and scope of scientific journals/publishers with the guidance of lecturers and/or journal editors
3. Students carefully study the publication process instructions with the guidance of lecturers and/or journal editors
4. Students study the instructions for writing manuscripts with the guidance of lecturers and/or journal editors
5. Students download article templates from the e-journal website and study the contents under the guidance of lecturers and/or journal editors
6. Students write manuscripts based on their respective research reports, with the guidance of lecturers
7. Students submit manuscripts online equipped with the required metadata with the guidance of lecturers and/or journal editors
8. Students wait for the results of the review, and revise the article according to the results of the correction by the reviewer and editor with the guidance of the lecturer
9. Students edit the manuscript together with a copy of the journal editor with the guidance of the lecturer and/or journal editor
10. Students carry out proofreading galley with journal proofreaders under the guidance of lecturers and/or journal editors
11. Students monitor the process of publishing fulltext articles and DOI with the guidance of lecturers and/or journal editors
12. Students register and monitor the index of articles / monographs and authors on Google Scholar

EVALUATION

Evaluation for Students

Achievements by students that can be evaluated in the short term include:

1. Achievement of accepted status for articles in journals or monographs in publishers
2. Achievement of published status as a full-text article in a journal or monograph e-book at a publisher
3. Number of scientific papers on Google Scholar

Achievements by students that can be evaluated in the long term include:

1. H-index on Google Scholar for students
2. i10-index on Google Scholar for students

Evaluation for University

Achievements by university that can be evaluated in the short term include:

1. Number of scientific papers on Google Scholar
2. Number of scientific papers produced by universities

Achievements by university that can be evaluated in the long term include:

1. H-index on Google Scholar for college
2. i10-index on Google Scholar for college
3. Increase in the ranking of higher education accreditation

CLOSING

This information is a basic guideline for universities interested in collaborating with the “Humanistic Network for Science and Technology” and the “Alliance of Health Activists (AloHA)”. Thus, there is an opportunity that is wide open for universities to carry out research studies in a complete way up to the stage of achieving research outcomes in the form of scientific publications in journals, proceedings or monograph books. As the first social project, of course, there are still many shortcomings in various aspects, so we are happy to receive constructive feedback from readers. All of this is for the sake of improving implementation for the future.

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