

INTEGRATION GUIDELINES RESEARCH IN LERANING



**UNIVERSITAS MUHAMMADIYAH PALU
LEMBAGA PENELITIAN DAN
PENGABDIAN PADA MASYARAKAT
2022**



UNIVERSITAS MUHAMMADIYAH PALU (UNISMUH PALU)

Jl. Hang Tuah No. 114 Telp./Fax. (0451) 425627 Palu 94118

SURAT KEPUTUSAN REKTOR

Nomor : 23/II.3.UMP/D/I/2022

TENTANG

PENETAPAN PEDOMAN INTEGRASI HASIL PENELITIAN DALAM PROSES PEMBELAJARAN UNIVERSITAS MUHAMMADIYAH PALU

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Dengan memohon ridho Allah SWT, Rektor Universitas Muhammadiyah Palu,

MENIMBANG

:

1. bahwa agar integrasi hasil penelitian dalam proses pembelajaran dapat dilaksanakan dengan baik perlu disusun Pedoman Integrasi Hasil Penelitian dalam Proses Pembelajaran
2. bahwa untuk memberikan legalitas hukum atas penetapan pedoman dimaksud, maka perlu dikeluarkan Surat Keputusan Rektor .

MENGINGAT

:

1. Undang-Undang Republik Indonesia Nomor 20 Tahun 2003 tentang Sistem Pendidikan Nasional;
2. Undang-Undang Republik Indonesia Nomor 12 Tahun 2012 tentang Pendidikan Tinggi;
3. Peraturan Pemerintah Republik Indonesia Nomor 4 Tahun 2014 tentang Penyelenggaraan Pendidikan Tinggi dan Pengelolaan Perguruan Tinggi;
4. Peraturan Menteri Kementerian Riset, Teknologi, dan Pendidikan Tinggi Republik Indonesia Nomor 62 Tahun 2016 tentang Sistem Penjaminan Mutu Pendidikan Tinggi;
5. Peraturan Menteri Pendidikan dan Kebudayaan Republik Indonesia Nomor 3 Tahun 2020 tentang Standar Nasional Pendidikan Tinggi;
6. Peraturan Menteri Pendidikan dan Kebudayaan Republik Indonesia Nomor 5 Tahun 2020 tentang Akreditasi Program Studi dan Perguruan Tinggi; Pedoman PP. Muhammadiyah No. 02/PE D/I.O/B/2012;
7. Statuta Universitas Muhammadiyah Palu;
8. Renstra Unismuh Palu Tahun 2019/2020– 2025/2026.

MEMPERHATIKAN

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1. Surat Keputusan Pimpinan Pusat Muhammadiyah Nomor : 689/KEP/I.O/D/2021 tentang Penetapan Rektor Universitas Muhammadiyah Palu.
2. Surat Ketua LPPM Nomor : 16/II.LPPM/B/I/2022 tentang Permohonan Pengajuan SK.

MEMUTUSKAN

MENETAPKAN
PERTAMA

- :
: Menetapkan Pedoman Integrasi Hasil Penelitian dalam
Proses Pembelajaran(Terlampir).

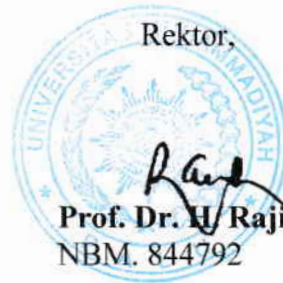
KEDUA

- : Surat keputusan ini berlaku sejak tanggal ditetapkan dan
akan diadakan perbaikan bila terdapat kekeliruan dalam
penetapan ini.

Ditetapkan di : Palu

Pada Tanggal : 02 Jumadil Awal 1443 H
05 Januari 2022 M

Rektor,



Prof. Dr. H/ Rajindra, S.E., M.M
NBM. 844792

Tembusan disampaikan kepada Yth.:

- 1.Ketua BPH Unismuh Palu;
- 2.Dekan Fakultas di lingkungan Unismuh Palu di Palu;
- 3.Direktur Pascasarjana Unismuh Palu di Palu;
4. Arsip.

FOREWORD

Praise be to Allah SWT for His abundance of mercy and grace so that this guideline for the integration of research in learning can be compiled and completed properly.

This guideline was prepared as an effort to improve the quality of learning at Universitas Muhammadiyah Palu (UNISMUH Palu) through the integration of research results. This integration is expected to bridge the gap between theory and practice, and provide a more contextual and relevant learning experience for students.

Hopefully this guideline can be a useful reference for lecturers, researchers, and students in carrying out integrative and effective learning activities.

Finally, I hope this guideline can make a positive contribution in improving the quality of research at UNISMUH Palu. May Allah SWT always bestow His grace and guidance on all of us. Aamiin

Palu, January 2022

Chairman of LPPM

Dr. Muliadi, SH, MH

INTRODUCTION

A. Rationale

The integration of research results in the learning process at UNISMUH Palu is very important for several reasons, among others:

1. Strengthening the Linkage of Theory and Practice:

This integration allows students to apply the theories they learn in class in a practical context, thus deepening their understanding and skills.

2. Improving the Relevance of Education:

By involving research results in learning, the curriculum becomes more relevant to the real needs and challenges in society.

3. Soft Skills Development:

Student involvement in research activities helps develop skills such as teamwork, leadership, and communication.

4. Improving the Quality and Reputation of Institutions:

Published and implemented research results can improve the academic quality and reputation of UNISMUH Palu at the national and international levels.

B. Legal Foundation:

1. Law No. 12/2012 on Higher Education:

Article 45 states that universities are obliged to organize education, research, and community service as an integral unit.

2. Regulation of the Minister of Education and Culture Number 3 of 2020 concerning

National Higher Education Standards:

It states that the higher education curriculum must be designed based on the results of research and community service.

3. Article 12 requires higher education institutions to ensure that students are involved in research and community service activities as part of the learning process.

4. Strategic Plan of Universitas Muhammadiyah Palu 2021-2025

5. Renop Universitas Muhammadiyah Palu 2021-2025

C. Destination

1. Increase the relevance of learning by linking theory with real practices faced in the community.
2. Encouraging Innovation and Creativity of students and lecturers to innovate and think creatively in finding solutions to problems faced in society.
3. Strengthening Collaboration and Partnership: Building a strong network of collaboration between UNISMUH Palu and local, national, and international partners through research activities.
4. Improve student and lecturer competencies through active involvement in research activities.

D. Benefits

1. For Students:
 - a. Practical Experience: Gain practical experience relevant to their field of study, enhancing their skills and understanding.
 - b. Contextualized Learning: Understand how theories learned in the classroom are applied in real contexts in society.
 - c. Employability enhancement: Enhancing their employability through relevant research and service experiences.
2. For Lecturers:
 - a. Competency Improvement: Improve the academic and professional competence of lecturers through active involvement in research.
 - b. Collaboration Opportunities: Expand collaboration networks with other researchers and practitioners at local and international levels.
 - c. Development of teaching materials: Enrich teaching materials with the latest research results.
3. For Institutions (UNISMUH Palu):
 - a. Reputation Enhancement: Enhance the academic reputation and credibility of UNISMUH Palu at national and international levels.
 - b. Strengthening the Chess Dharma: Strengthening the implementation of the Three Pillars of Higher Education through synergistic integration of education, research, community service, and Al Islam and Kemuhammadiyah.
 - c. Curriculum Development: Develop a curriculum that is more innovative and responsive to the needs and challenges of society.

4. For the Community:

- a. Application of Practical Solutions: Obtain practical solutions to problems encountered through relevant research results.
- b. Quality of Life Improvement: Improving people's quality of life through research programs that focus on empowerment and sustainable development.
- c. Partnerships with Universities: Strengthen partnerships between communities and universities for better regional development.

DEVELOPMENT DIRECTION OF INTEGRATION IN LEARNING

A. Vision of LPPM Unismuh Palu

In 2025, it will become a research and community service institution that supports the application of science and technology in accordance with the uniqueness and diversity of study programs that support Islamic independence and entrepreneurship for a more prosperous Muhammadiyah Palu University.

B. Mission of LPPM Unismuh Palu

1. Encouraging and organizing research and community service activities in accordance with study programs within Unismuh Palu
2. Directing research and community service activities in accordance with Unismuh Palu's Principal Scientific Pattern (PIP), namely Islamic independence and entrepreneurship.
3. Organizing various research and community service activities that aim to improve the resources of researchers and servants.
4. Conducting cooperation and partnership with various parties (government, private and community) and synergizing with study programs in Unismuh Palu to mobilize cooperation with various parties.

C. Objectives of Research Integration in Learning

1. Research should focus on topics that fit this vision and results should be integrated into the curriculum to provide a practical context for students.
2. Students will gain an in-depth understanding of how science and technology can be applied to support Islamic independence and entrepreneurship, according to the characteristics of their study program.
3. Each study program can develop relevant research projects and integrate the results into their curriculum.
4. Students can learn from real-life examples relevant to their field of study, enhancing the link between theory and practice.
5. Integration of research in learning can include case studies and projects that emphasize self-reliance and Islamic entrepreneurship.

6. Students can develop skills and knowledge in accordance with Islamic values and practical needs in the field.
7. Student involvement in research projects can be made part of the curriculum to improve their competencies.
8. Students will gain hands-on experience in research activities, enhancing their practical and academic skills.
9. Collaborative projects can be integrated into the curriculum as part of learning, providing opportunities for students to engage in real collaboration.
10. Students can learn from the experience of cooperation with various parties and understand how research results can be applied in a real context.

D. Development Strategies for Integrating Research in Learning

1. Internal and External Grant Improvement:

- a. Increased research grants will provide more resources to support relevant and integrative research activities.
- b. Grants can be used to fund research projects involving students, giving them practical experience in data collection, analysis, and project development.
- c. Students have the opportunity to be directly involved in funded research, enriching their learning experience with practical research activities.

2. Establishment of the UNISMUH Palu Research Road Map:

- a. The Research Road Map provides clear strategic guidance on the focus and prioritization of research at the university.
- b. This Road Map can be used as a guide to develop a curriculum that includes research results, provides examples of real case studies that are suitable for learning topics.
- c. Students are able to understand the long-term context and significance of the research undertaken, and how it relates to their learning.

3. Publication of Lecturer Research Results:

- a. Ensuring that lecturers' research results are published in indexed national and international journals will increase the visibility and credibility of the research conducted.
- b. This publication can be used as a reference in teaching materials, as well as integrated in the syllabus of related courses.
- c. Students gain access to relevant current research results, helping them stay *up-to-date* with the latest scientific developments.

4. Research Results as Reference Materials for Science and Learning Development:

- a. Using research results as reference material will enrich the learning content and ensure that learning is based on valid data and findings
- b. Research results can be integrated into assignments, projects, and class discussions, providing opportunities for students to analyze and critique research findings.
- c. Students can develop critical and analytical thinking skills through direct interaction with research results.

5. Increasing the Acquisition of IPR, Textbooks, and Reference Books:

- a. Increasing the acquisition of Intellectual Property Rights (HAKI) and publishing textbooks and references from research results ensures that the innovations and knowledge produced have a broad and sustainable impact.
- b. Textbooks and references compiled based on research results can be used as the main material in learning.
- c. Students have access to high quality learning materials that are in line with the latest developments in their field of study.

INTEGRATION OF RESEARCH IN LEARNING ON INSTITUTIONAL STRENGTHENING

A. Integration Of Research In Learning At Vision

1. Application of Science and Technology: Integrate research results that focus on the application of science and technology into the learning curriculum.
2. Uniqueness and Diversity of Study Programs: Utilize the uniqueness and diversity of the study program to create diverse and integrative research projects.
3. Supporting Islamic Self-Reliance and Entrepreneurship: Develop research projects that focus on self-reliance and entrepreneurship in accordance with Islamic values, and integrate the results in the learning process.
4. Human Resource Development: Involving students in research projects as part of their learning, so that they can develop research and community service skills.
5. Increasing Publications and Collaborations: Encourage lecturers and students to publish their research results in national and international journals, and collaborate with various parties to expand the impact of research.

B. Integration of Research in Learning at Mission

1. Encouraging and Organizing Research and Community Service Activities in accordance with Study Programs in Unismuh Palu:
 - a. Ensure each study program has relevant research and community service projects integrated in the learning curriculum.
 - b. Lecturers can design class assignments and projects that are based on research and community service, so that students can learn from practical experiences that are relevant to their field of study.
 - c. Students gain in-depth understanding through hands-on experience, strengthening the link between theory and practice.

2. Directing Research and Community Service Activities in accordance with the Principal Scientific Pattern (PIP) of Unismuh Palu, namely Islamic Independence and Entrepreneurship:
 - a. Focus on research topics and community service activities that support Islamic values-based independence and entrepreneurship.
 - b. Students can be involved in research projects that explore Islamic entrepreneurial solutions or community service programs that encourage community self-reliance.
 - c. Students learn to apply Islamic values in the context of entrepreneurship and self-reliance, strengthening their understanding of academic integrity and professional ethics.
3. Organizing various research and community service activities that aim to improve the resources of researchers and servants:
 - a. Organizing training, workshops, and seminars that focus on increasing the capacity of researchers and servants.
 - b. Lecturers and students can participate in capacity building programs related to research and community service, and apply the results in learning.
 - c. Improve students' research and service skills, and encourage them to be actively involved in research and service projects.
4. Conducting Cooperation and Partnership with Various Parties (Government, Private, and Society) and Synergizing with Study Programs in Unismuh Palu to Promote Cooperation with Various Parties:
 - a. Build strong partnerships with government, industry, and local communities to support research and community service projects.
 - b. Research and community service projects conducted with external partners can be made part of the learning curriculum, giving students the opportunity to learn from real collaborations.
 - c. Students gain hands-on experience in working with various stakeholders, strengthening their collaborative skills and understanding of research applications in real contexts.

C. Integration of Research in Learning on Objectives

1. Current and Relevant Lecturer Research:
 - a. Integrate current and relevant research results of lecturers into learning materials.
 - b. Lecturers can use their research results as case studies in lectures, providing practical context for students.
 - c. Develop teaching materials based on the latest findings from lecturers' research, ensuring materials are always up-to-date and relevant.
 - d. Students will learn from quality and relevant materials, increasing their engagement and understanding of the topics taught, the teaching and learning process is maximized because it is supported by material sources that are in accordance with the actual problems faced.
2. Publication of Lecturer Research Results:
 - a. Encourage and facilitate lecturers to publish their research results in international scientific journals
 - b. Using published articles as required reading or additional references in courses, allows students to learn from internationally recognized research
 - c. Engage students in research projects geared towards publication, so that they gain experience in the research process and scientific writing.
 - d. With internationally published research, students not only learn from quality material but also gain insight into global research standards. This also helps to enhance the university's reputation, as internationally recognized scholarly work will attract more attention from around the world.

RESEARCH INTEGRATION IN HIGHER EDUCATION INSTITUTIONS

A. Integration of Research in Education and Teaching

1. Graduate Profil

- a. The profile of graduates in the study program must reflect the nuances of integration according to the main field of science and become the basis for determining the integration competencies of graduates.
- b. Graduate competencies must contain elements of integrated mastery of attitudinal competencies, general knowledge and general skills.
- c. Attitude competencies must contain elements of integration contained in the graduate competency standards in the study program curriculum and observed in the entire process while students are at Universitas Muhammadiyah Palu
- d. Knowledge Competencies must contain elements of integration contained in the graduate competency standards in the study program curriculum in the form of courses or study materials or part of the study material is the result of lecturer research or from the results of community service whose phenomenon is *problem solving*.
- e. Skill Competencies must contain elements of integration contained in the graduate competency standards in the study program curriculum in the form of courses or study materials or parts of study materials that are field expertise the study program.
- f. Integration elements in study materials or parts of course study materials are compiled by lecturers in the form of results/products from research-based research as *real knowledge* in society.

2. Graduate Competencies

- a. Each graduate must have integrated competencies of attitude, knowledge and skills where each lecturer who teaches certain courses must be able to apply the study of research results in learning.
- b. Graduate competencies in the attitude, knowledge, and skills components must be formulated by each study program by integrating the latest research results as the competitiveness of alumni is guaranteed.
- c. The University sets general knowledge competencies and general and specific skills according to study programs and alumni profiles that are oriented towards Research integration in their learning.
- d. The University must organize *academic excellence* oriented towards the integration of lecturers' research results in learning to produce competent and innovative graduates and (and contribute) to the improvement of civilization and the welfare of society.

3. Learning Content

- a. The curriculum must be structured based on general knowledge oriented towards forming students who excel in the scientific field who have faith and devotion.
- b. The curriculum structure should be geared towards shaping competencies according to the level of education and learning of the learners.
- c. The curriculum must be effectively designed to meet the needs of the development of science and technology, the needs of graduate users.
- d. The curriculum must be comprehensive, competitive, flexible and adaptive in adapting to advances in science and technology by innovating lecture materials and references from the results of lecturer research that are included in learning
- e. The curriculum must be comprehensive and flexible in adapting advances in science, technology and art, all of which must be linked to the principle of integration Research by LPPM development and integrated in learning.
- f. The curriculum should contain scientific development by synergizing the results of lecturer research in learning in the latest science, technology and art.

4. The Learning Process

- a. The learning process that takes place at Universitas Muhammadiyah Palu must implement these research values in the lecture process.
- b. All research activities that take place at Universitas Muhammadiyah Palu must be able to make references to teaching materials and be included as development materials in the learning process.
- c. All campus residents in carrying out academic and non-academic activities must implement the values of Research integration in learning.
- d. The values of integrating research in learning in the service aspect are the elaboration of services according to service quality standards made by each work unit which are implemented according to the rules of the university must organize a fair new student admission system according to the principles of learning standards in service and new student admission standards.
- e. Faculties should determine the specific requirements of Research integration in learning for students so that they are aligned with the specifications of the department.
- f. The learning process must be based on the RPS which contains the results of the integration of lecturer research in learning.

- g. The content of integration in the learning process must be evaluated periodically by the faculty/prodi on the results of research in the form of money RPS in each semester.
- h. The learning process should use student-centered learning models and strategies.
- i. Relevant, up-to-date and effective learning with students with concrete examples from research results conducted by lecturers.
- j. The faculty should determine the optimal number of students per class per course. Course materials should be broken down into small sections ranging from courses, subject matters, sub-topics, which are in accordance with the findings of the lecturer's research
- k. The learning process should use relevant learning tools effectively and efficiently with simple research methods/models in the lecturer's research

5. Learning Assessment

- a. Learning assessment must fulfill the principles of *educative, authentic, objective, accountable*, and transparent which are carried out in an integrated manner.
- b. Assessment techniques should consist of observation, participation, performance, written tests, oral tests and questionnaires.
- c. The files and results of the assessment should be organized in order to provide explanations to students who need them.
- d. All records of all summative tests should be organized in order to provide explanations to students who need them.
- e. The design of learning assessment must be prepared during the RPS development.
- f. Learning assessment techniques must take into account the characteristics of the course and the outcomes set out in the curriculum.
- g. Learning assessment instruments must be valid, reliable and meet content, construction and language requirements and contain up-to-date instrument data from research.
- h. The preparation, duplication and distribution of learning assessment instruments must fulfill security and confidentiality aspects.
- i. The weighting of the assessment components must be in accordance with the weights agreed upon by the lecturer and student.

- j. The results of learning assessment must be expressed in a formula determined in accordance with academic guidelines.
- k. The faculty must have an academic guidance and counseling program for students that is able to direct the results of lecturers' research as part of students' final assignments.
- l. Faculties should have procedures in place that regulate the mechanism for expressing student dissatisfaction.

6. Learning Management

- a. Learning at the study program level by paying attention to the results of lecturers' research outputs
- b. Study programs must develop curriculum and lesson plans in each course that accommodate the principle of integration of lecturer research in learning.
- c. Study programs must organize learning programs in accordance with the integration of lecturer research in learning related to content, process, assessment that has been determined in order to achieve quality graduate learning outcomes.
- d. The study program must carry out academic activities that create an academic atmosphere, quality culture and Islamic nuances.
- e. The study program must conduct periodic monitoring and evaluation in order to maintain and improve the quality of the learning process that carries the concept of research integration in learning.
- f. Universities must develop policies, strategic and operational plans related to learning that can be accessed by the academic community and stakeholders and used as guidelines for study programs in implementing learning programs based on the principle of integration of research in learning.
- g. Universities must organize learning in accordance with the types and programs of education that are aligned with learning outcomes and the principles of Research integration in learning.
- h. Universities must maintain and improve the quality of Research integration in learning, as well as the management of study programs in implementing learning programs on an ongoing basis with targets that are in accordance with the vision and mission of the university.

- i. Universities must monitor and evaluate the activities of study programs in carrying out learning activities according to the principle of research integration in learning.
- j. Universities must have guidelines for the integration of Research and PkM in learning for the implementation, planning, implementation, evaluation, supervision, quality assurance and development of learning activities and lecturers.
- k. Universities must submit reports on the performance of study programs in organizing learning programs with the content of Research integration in learning to become data for follow-up plans.

B. Integration Of Research in Learning in the Field of Research and Scientific Work

1. Research Results and Scientific Works

- a. Research results must be directed to the development of science, technology and religion that are always integrated (general science and religion) in order to improve the welfare of society and the competitiveness of a civilized nation.
- b. Research results must be in line with Islamic and Muhammadiyah values and part of the development of scientific courses.
- c. The results of lecturers' research must be directed to the development of research integration in learning in accordance with their field of expertise.
- d. The results of student research must lead to the fulfillment of the learning outcomes of graduates who are charged with the output of research results in learning.
- e. Scientific work in the form of reports, articles in journals and books must contain discussions related to the principles of Research Integration in learning in the theory contained in the expertise course.

2. Research Content

- a. Research must be carried out in accordance with the quality standards (standards) determined by LPPM, as well as in accordance with the rules of research in learning and research ethics in their respective fields.
- b. Research must include basic and applied research that contains the principles of usefulness, currency, and anticipates future needs and includes special study material that is integrated with teaching materials for the benefit of improving civilization.
- c. The material in basic research must be oriented towards research outputs in the form of explanations or discoveries to anticipate a new symptom, phenomenon, rule, model, or postulate while still containing a discussion of the relationship with Islamic values.

- d. The material in applied research must be oriented towards research outputs in the form of innovation and development of science and technology that are beneficial to society, the business world, and / or industry.
 - e. Research should be conducted in a multi and *interdisciplinary* manner between sciences and have the distinctiveness of Universitas Muhammadiyah Palu from the excellence of the university.
3. Researcher
- a. Researchers must master how to integrate research results in learning and be able to master research methodologies that are appropriate to the field of research, the object of research, and the level of complexity and depth of research.
 - b. Researchers must be able to make the output of their research in the form of teaching materials or current references.
4. Research Management
- a. LPPM must organize and develop research in accordance with the Principles of Research Integration in the learning process which must be contained in the Research Strategic Plan.
 - b. LPPM must compile and develop a Research Master Plan that is nuanced with the integration of lecturer research that can be applied in learning and in accordance with the vision and mission of the University.
 - c. LPPM should be able to create cooperative research relationships with domestic and foreign universities to increase the quantity and quality of performance and research results can be used as teaching materials included in the RPS.
 - d. LPPM should be able to establish cooperative relationships with the industrial world as a basis for proactive cooperation that prioritizes the principle of research integration in accordance with the thematic study programs and the excellence of the university.
 - e. LPPM must be oriented that there must be integration of Research in the learning process in compiling and developing the curriculum. Teaching materials, regulations, guidelines, and internal research quality assurance systems.
 - f. LPPM must facilitate the implementation of research integrated with learning (including funding).
 - g. LPPM conducts Monev of research that has implemented the integration of lecturer research in learning.
 - h. LPPM compiles and assesses the depth and breadth of integrated research activity reports.

- i. LPPM disseminates (publishes) research results with the integration of research in learning.
- j. LPPM facilitates the improvement of Research integration capabilities in researchers' learning (training, seminars, workshops, or transformation to other universities).
- k. LPPM facilitates a reward system for research that is oriented towards the integration of research in learning.
- l. LPPM seeks to develop patents on research results of Research integration in learning
- m. LPPM strives to organize training, seminars, workshops, and transformations focusing on Research Integration in learning to institutes at home and abroad in order to improve the ability and quality of research.
- n. LPPM should be able to coordinate *interdisciplinary* research that involves interdisciplinary and inter-university research at home and abroad
- o. LPPM must develop a scientific integration-oriented research roadmap that supports the curriculum that leads to the achievement of the University's Vision and Mission.

RESEARCH-ORIENTED LEARNING OUTCOMES

Research-oriented learning outcomes refer to the learning outcomes achieved by students through an approach that emphasizes active engagement in research activities. Students are able to understand and apply various research methodologies relevant to their field of study. They can identify relevant problems in their field of study and analyze them using a research-based approach. Students also have skills in compiling research reports, writing scientific articles, and presenting research results effectively.

In addition, students are actively involved in research projects, either faculty-led or collaborative with other institutions. They develop the technical skills required to carry out research, such as the use of laboratory tools, data analysis software, and experimental techniques. Students understand ethical principles in research and are able to apply them in every stage of research. They are also able to identify and explain the impact of their research results on society, industry, or specific fields of science.

Students are able to work in research teams, collaborating with peers, lecturers, and researchers from other institutions. Through these learning outcomes, students not only gain theoretical knowledge but also practical skills and hands-on experience in research, which prepares them to contribute significantly in the academic and professional world.

Graduate competencies are outputs from the implementation of education that include attitudes, knowledge, general skills, and special skills. The output of conducting research is directed to the development of learning, improving the welfare of society, and the competitiveness of the nation.

Research Policy of Universitas Muhammadiyah Palu

The basic research policy at Universitas Muhammadiyah Palu refers to the main themes, strategic issues, strategic plans, and research themes that have been formulated and established. This policy aims to practice science, technology, and art to increase the relevance of the program to the needs of the community, as well as to establish mutually beneficial cooperation with various agencies, both government and private. The following are the main research policies implemented at Unismuh Palu:

1. Character Education Innovation Based on Local Values:

- Focus on developing educational innovations that integrate local values, so as to form strong and insightful student characters.

2. Religious and Integrative Science and Technology Development:

- Encouraging the development of science and technology that is not only modern, but also aligned with religious and integrative values, in order to create a balance between technological progress and spirituality.

3. Exploring the Values of Al-Islam and Kemuhammadiyah to Improve the Quality of Life in Progress:

- Conduct research that explores and develops the values of Al-Islam and Kemuhammadiyah as a basis for improving the quality of life of a progressive society.

4. Social and Humanities Studies for Peace:

- Researching various aspects of the social and humanities with a view to promoting peace and harmony in society

5. Disaster and Entrepreneurship:

- Developing research that focuses on disaster mitigation and entrepreneurship development, in order to improve community preparedness and ability to deal with disasters and encourage economic growth through entrepreneurship.

These policies are then forwarded to each faculty and study program to be implemented in accordance with their respective fields. LPPM (Institute for Research and Community Service) at Universitas Muhammadiyah Palu is responsible for managing and coordinating these research programs, ensuring that all research activities are in line with the university's policies and strategic goals.

CLOSING

The integration of research in learning is an essential strategic step to improve the quality of education at Universitas Muhammadiyah Palu. By linking research results into the curriculum, students not only gain theoretical knowledge but also practical skills that are relevant to the needs and challenges in the field. This approach ensures that the teaching and learning process becomes more contextualized, applicable, and in line with the latest scientific and technological developments. In addition, this integration also strengthens the relationship between the university and the community, increasing the positive impact of research results on the welfare of the surrounding community.

Recommendation:

1. Lecturers and study programs are expected to continue to develop and update curricula based on the latest and relevant research results. This can be done by integrating case studies, research projects, into courses.
2. Universities need to provide more training and workshops for lecturers and students to improve their ability to conduct research. Adequate facilities and support will encourage active participation in such activities.
3. Increase collaboration with various parties, including government, industry, and other research institutions, to expand research opportunities. These partnerships will assist in the development of more impactful and sustainable projects.
4. Encourage lecturers and students to publish their research results in reputable national and international journals. These publications not only increase the visibility of research results but also make a real contribution to the development of science.
5. Conduct regular monitoring and evaluation of the implementation of research integration in learning. Feedback from various stakeholders should be used to continuously improve and enhance the effectiveness of this program.

IMPLEMENTATION

- a. Learning Process: Integrate the results of research and community service in the curriculum and learning process.
- b. Supporting Activities: Organize supporting activities such as presentations, seminars, workshops, and collaboration with the community.

EVALUATION AND IMPROVEMENT

- a. Evaluation: Measuring the effectiveness of the integration of research and community service in learning.
- b. Upgrading: Develop an improvement plan based on the evaluation results.

CLOSING

- a. Conclusion: Summarize the importance of integrating research and community service in learning.
- b. Recommendations: Provide recommendations for further development.