



FACULTY OF TEACHER
TRAINING AND
EDUCATIONAL SCIENCES
UNIVERSITY OF
NUSA CENDANA

1ST INTERNATIONAL CONFERENCE ON SCIENCE, APPLIED SCIENCE TEACHING AND EDUCATION (1ST ICoSASTE 2019)

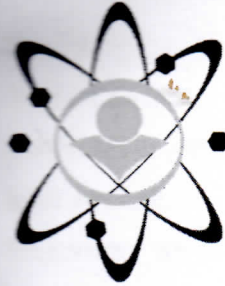
THEME:
RECENT INNOVATION IN SCIENCE,
TECHNOLOGY, LEARNING
AND EDUCATION

BOOK ABSTRACT

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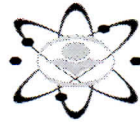


1st ICoSASTE 2019

International Conference on Science,
Applied Science, Teaching and
Education

*“Recent Innovations in Science,
Technology, Learning and Education”*

ABSTRACT BOOK



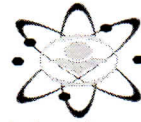
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FOREWORD

We thank to the Almighty God for His blessing and grace so that the Faculty of Teacher Training and Educational Sciences of Universitas Nusa Cendana gets a chance to organize the First International Conference on Science, Applied Science, Teaching and Education with 'Recent Innovations in Science, Technology, Learning and Education' as its central theme. This international conference is held from May 14th to May 15th 2019 at Aston Hotel, Kupang.

This international conference is organized with the purpose of establishing academic communication among researchers, lecturers and students as well as to play active roles in enhancing sustainably scientific and technological development in Indonesia. We hope this Abstract Book of International Conference can help to once again inspire researchers, lecturers and students in which it is expected to become a study material to develop education and research for better future of Indonesia.

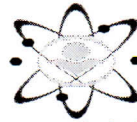
In this occasion, the organizing committee also would like to firstly thank to the keynote speaker Assoc. Prof. Clovia Holdsworth, M.Sc, the Associate Professor in School of Environmental and Life Science at the University of Newcastle; Prof. Dr. Irwandi Jaswir, M.Sc, a Professor at International Institute for Halal Research and Training of International Islamic University, Malaysia; Prof. Ir. Fredrik L. Benu, M.Si., Ph.D, the rector of Universitas Nusa Cendana; Prof. Tans Feliks, M.Ed., Ph.D, the Professor in English Education Department, Faculty of Teacher Training and Educational Sciences of Universitas Nusa Cendana. Secondly, we also express our big thanks to domestic and international presenters, that is, those who are from



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Airlangga University, Sepuluh Nopember Institute of Technology, Gotong Royong Education College-Masohi, Padjajaran University, Universitas Nusa Cendana, University of York, Gadjah Mada University, the University of Indonesia, University of Muhammadiyah at Palangkaraya, Bina Nusantara University, AMPTA Tourism College - Jogjakarta, IAIN Bengkulu, Nusa Bunga Education College-Nagekeo, Universitas Pendidikan Indonesia, Semarang State University, Sunan Gunung Djati Islamic State University Bandung & Iqra Fajar Utama Foundation, Kantor Bahasa NTT, Ahmad Dahlan University, Yogyakarta State University, Kupang State Polytechnic, Sebelas Maret University, the State University of Surabaya, Bogor Institute of Agriculture, Muhammadiyah University-Kupang, Malang State University, Telkom University, Bukhara State University, Universitas Mulawarman, UIN Mataram, Catholic University of Saint Thomas, Muhammadiyah Education College - Bone, Ganesha Education University, Jakarta State University, Citra Bina Nusantara Education College Kupang, PT SMART Tbk, TPHP NEW, Muhammadiyah University - Surabaya, Department of Non-Formal Education, Nusantara Maritime Academy, Pelita Harapan University, Weetabula Education College, University of Nadhatul Ulama-Surabaya, Suryakencana University, The State University of Surabaya, Hasanuddin University -Makassar, Indonesian Christian University - Jakarta, Tribuana University - Kalabahi and University of Timor.

This international conference can be held well due to the involvement of many parties and hard work of the organizing committee members. Last but not least, we express our deep thank to the Rector of Universitas Nusa Cendana, the Dean of Faculty of



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Teacher Training and Educational Sciences, the committee members and all related parties for any helps to make this conference successful. May this Abstract Book of the 1stICoSASTE can give a constructive input in developing and improving the professionalism of the researchers, lecturers, students and future generations.

Kupang, May 10th 2019

Committee Members

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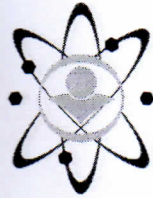
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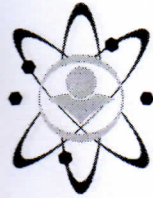
Application of Peer Tutor Methods to Improve Butterfly Swimming Technique Skills to Students in Physical Education Health and Recreation Study Program at Nusa Cendana University

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Abstract

The application of student-centered teaching methods was observed to have a more positive impact on improving student abilities (Student Center Learning). Student center learning is a learning model that places students as the center of the learning process, in its application, students are expected to be active and independent participants in the learning process, who are responsible and initiative to recognize their learning needs, find information sources to be able to answer their needs, build and present their knowledge. Peer tutor learning methods are part of the application of student center learning. The purpose of this study was to determine the effectiveness of applying peer tutoring learning methods in a butterfly swimming technique course for students in Physical Education Health and Recreation Study Program. So far the teaching method used is centered on the lecturer, students who have not mastered the butterfly swimming technique pool sometimes feel pressured by the learning situation which is only centered on the lecturer, this is because the lecturer has a target of increasing ability after several meetings / exercises. This research is to answer the problem regarding the difficulties of students in the process of lecturing in a butterfly swimming technique. Butterfly technique is a swimming technique with a high degree of difficulty compared to other swimming technique. The research method used in this study is qualitative naturalistic, which takes a natural setting when the butterfly swimming technique activities occur without any additions and subtractions, the resulting data is descriptive data in the form of written and oral words from students involved in swimming technique butterfly. The results of the study show that the application of peer tutoring methods has an impact on increasing the results of the butterfly swimming technique pool to students who study in semester 2 (2017 class) in physical education health and recreation study program.



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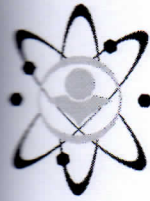
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Veramyta Maria Martha Flora Babang^{1}, Lukas M. Boleng¹*

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Evaluation Study of Mechanical Skill and Learning Strategies in Using Lathes at State Technology Vocational School (SMK) in Kupang City

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Abstract

This study was aimed at understanding the difference between the influence of VCD media and demonstrations learning strategies toward the skills of using a metalworking lathe and on its use by low-mechanical talented students. A quantitative experimental with evaluation research orientation was employed. The research samples were obtained from State Technology Vocational Schools (SMK) in Kupang City. through the use of cluster random sampling. The data were collected by observation, interviews, and tests conducted on practical learning of using lathe machine through VCD media and demonstration putting students' mechanical talents into consideration. The data were analyzed through the use of two-way ANOVA. The results showed that there was a difference in the effect of learning strategies with VCD media and demonstrations of the skills of using lathe for students majoring in Mechanical or Automotive Engineering and a difference was also observed in the skill of using lathe for low mechanical talented students.

Keywords: Learning Strategy, VCD, Demonstration, Skill, Lathe