

e-Jurnal: <http://doi.org/10.21009/1>

p-ISSN: 2461-0933

e-ISSN: 2461-1433

JPPPF

Volume 6 Issue 1, June 2020

DOI: doi.org/10.21009/1.061

Jurnal Penelitian dan Pengembangan
**PENDIDIKAN
FISIKA**



Pendidikan
Fisika



LPPM



Abstracting and Indexing:

 DOAJ DIRECTORY OF OPEN ACCESS JOURNALS	 Google Scholar	 PKP INDEX	 Crossref
 BASE	 sinta Science and Technology Index	 indonesia oneSearch	 ISJDNeo INDONESIAN SCIENTIFIC JOURNAL DATABASE Database Jurnal Ilmiah Indonesia
 Microsoft Academic Search	 OpenAIRE Open Access Infrastructure for Research in Europe	 SIS Scientific Indexing Services	 citeulike
 DCLC WorldCat	 UNIVERSITY OF SASKATCHEWAN University Library	 WORLDWIDE SCIENCE.ORG	 EBSCO INFORMATION SERVICES Open Science Directory
 Scilit	 MORAREF	 IPI	 JOURNAL FACTOR
 ACADEMIA	 资源发现 天津理工大学 天津理工大学图书馆	 ESJI Eurasian Scientific Journal Index www.ESJIndex.org	 INTERNATIONAL Scientific Indexing
 DRJI Directory of Research Journal Indexing	 GARUDA GARUDA BUJUKAN DIGITAL		

e-Jurnal: <http://doi.org/10.21009/1>

JPPPF

Volume 6 Issue 1, June 2020

DOI: doi.org/10.21009/1.061

Assessment Virtual Test (ASVITE): Assessment Virtual Based on Interactive Lecture Demonstration (ILD) to Support Employability Skills

Kissi Marwanti, Suberman Suberman, Firmanul Catur Wibowo, Dina Rabmi Darman, Yudi Guntara

Improving Students' Creative Thinking Skills Using Problem-Based Learning (PBL) Models Assisted by Interactive Multimedia

Lukman Nulhakim, Fajar Rizki Setiawan, Asep Saefullah

Designing MOOCs with VMS (Virtual Microscopic Simulation) for Measurement Student's Level Understanding (LU)

Sisi Saptria Dewi, Suberman Suberman, Firmanul Catur Wibowo, Dina Rabmi Darman, Aji Pancer Agung Rino, Ilham Akbar Darmawan

The Experimental Study of Kinesthetic Style Student Learning Outcomes in Remedial Teaching Assisted by Projectile Motion Props

Sari Eka Putri, Ivan Permana Suwarna

The Development of Horizontal Anchor Items Test Tool by Rasch Model for Physics National Examination using Macromedia Flash

Yetti Supriyati, Raihanati Raihanati, Wirda Nilawati

The Development of Thermodynamics Law Experiment Media Based on IoT: Laboratory Activities Through Science Problem Solving for Gifted Young Scientists

Yeni Rima Liana, S Linuwih, S Sulhadi

The Design of One-Dimensional Motion and Two-Dimensional Motion Learning Media Using Digital Camera and Tracker-Based Air Track

Fransisca Indra Dewi, Nur Aji Wibowo, Debora Natalia Sudjito, Ferdy Rondonuwu

The Students' Characters Analysis in Physics Learning Process

Anita Anita, Fety Novianty

The Science Literacy Capabilities Profile Using Guided Inquiry Learning Models

Rudi Haryadi, Heni Pujiastuti

Improvement of Science Process Skills Through Sound Variable Intensity Level Tool Kit

Royhanun Athiyyah, Taufiq Al Farizi, Dwi Nanto

The Local Wisdom-Based STEM Worksheet to Enhance the Conceptual Understanding of Pre-service Physics Teacher

Indri Sari Utami, Mudmainah Vitasari, Indah Langitasari, Iwan Sugihartono, Yuli Rahmanwati

An Investigation of Physics Teachers' Multiple Representation Ability on Newton's Law Concept

Masrifah Masrifah, Agus Setiawan, Parlindungan Sinaga, Wawan Setiawan

The Development of Blended Learning Model using Edmodo to Train Student Critical Thinking Skills on Impulse-Momentum Topic

Yus Rama Denny, Indri Sari Utami, Siti Robanah, Dewi Mulyati

The Effect of Quick on The Draw Model Assisted by The Physics Learning Book Integrated Pancasila Values on Critical Thinking Skill

Imam Arifin, Insib Wilujeng, Jumadi Jumadi

Instructional Technology: Teacher's Initial Perception of TPACK in Physics Learning

Depi Oktasari, Disa Hediandab, Jumadi Jumadi, Warsono Warsono

e-Jurnal: <http://doi.org/10.21009/1>

JPPPF

Volume 6 Issue 1, June 2020

DOI: doi.org/10.21009/1.06100

Editor-in-Chief

Fauzi Bakri, M.Si. (Universitas Negeri Jakarta)

Editors

Prof. Madya Dr. Md. Nizam Abd Rahman (Universiti Teknikal Malaysia Melaka)

Prof. Dr. I Made Astra, M.Si. (Universitas Negeri Jakarta)

Prof. Dr. Agus Setyo Budi, M.Sc. (Universitas Negeri Jakarta)

Dr. Ezza Syuhada Sazali (Universiti Teknologi Malaysia)

Dr. Esmar Budi, M.T. (Universitas Negeri Jakarta)

Dewi Mulyati, M.Si., M.Sc. (Universitas Negeri Jakarta)

Siswoyo, M.Pd. (Universitas Negeri Jakarta)

Handjoko Permana, M.Si. (Universitas Negeri Jakarta)

Reviewers (Mitra Bebestari)

Prof. Marie Paz E. Morales, Ph.D, Sci. Ed. (Philippine Normal University)

Prof. Md. Rahim Sahar (Universiti Teknologi Malaysia)

Prof. Dr. Festiyed, M.Si. (Universitas Negeri Padang)

Dr. Abdurrahman, M.Si. (Universitas Lampung)

Dr. Desnita, M.Si. (Universitas Negeri Padang)

Dr. Ida Kaniawati, M.Si. (Universitas Pendidikan Indonesia)

Dr. Sahrul Hidayat M.Si. (Universitas Padjajaran)

Dr. Lia Yuliati, M.Pd. (Universitas Negeri Malang)

Dr. Setiya Utari, M.Si. (Universitas Pendidikan Indonesia)

Dr. Sarwanto, M.Si. (Universitas Sebelas Maret)

Sukarmin, M.Si., Ph.D. (Universitas Sebelas Maret)

Editorial Office

Program Studi Pendidikan Fisika Fakultas MIPA

Kampus A Universitas Negeri Jakarta

Gedung K.H. Hasyim Asyari Lt.10

Jalan Rawamangun Muka No.1 Rawamangun-Pulogadung

Jakarta Timur, 13220, Indonesia

EDITORIAL FOREWORD

JPPPF (Jurnal Penelitian & Pengembangan Pendidikan Fisika) is dedicated to all practitioners of education. JPPPF coverage includes: experimental research, action research, qualitative research, quantitative research, and development research (model, media, and learning evaluation) aimed at improving the quality and building innovation in Physics education.

JPPPF Volume 6 Issue 1 contains 15 articles: 1) Assessment Virtual Test (ASVITE): Assessment Virtual Based on Interactive Lecture Demonstration (ILD) to Support Employability Skills; 2) Improving Students' Creative Thinking Skills Using Problem-Based Learning (PBL) Models Assisted by Interactive Multimedia; 3) Designing MOOCs with VMS (Virtual Microscopic Simulation) for Measurement Student's Level Understanding (LU); 4) The Experimental Study of Kinesthetic Style Student Learning Outcomes in Remedial Teaching Assisted by Projectile Motion Props; 5) The Development of Horizontal Anchor Items Test Tool by Rasch Model for Physics National Examination using Macromedia Flash; 6) The Development of Thermodynamics Law Experiment Media Based on IoT: Laboratory Activities Through Science Problem Solving for Gifted Young Scientists; 7) The Design of One-Dimensional Motion and Two-Dimensional Motion Learning Media Using Digital Camera and Tracker-Based Air Track; 8) The Students' Characters Analysis in Physics Learning Process; 9) The Science Literacy Capabilities Profile Using Guided Inquiry Learning Models; 10) Improvement of Science Process Skills Through Sound Variable Intensity Level Tool Kit; 11) The Local Wisdom-Based STEM Worksheet to Enhance the Conceptual Understanding of Pre-service Physics Teacher; 12) An Investigation of Physics Teachers' Multiple Representation Ability on Newton's Law Concept; 13) The Development of Blended Learning Model using Edmodo to Train Student Critical Thinking Skills on Impulse-Momentum Topic; 14) The Effect of Quick on The Draw Model Assisted by The Physics Learning Book Integrated Pancasila Values on Critical Thinking Skill; 15) Instructional Technology: Teacher's Initial Perception of TPACK in Physics Learning.

Hopefully, JPPPF can be a reference for readers and researchers in developing physics education.

Jakarta, 30 June 2020
Editor-in-Chief,

Fauzi Bakri

TABLE OF CONTENTS

Assessment Virtual Test (ASVITE): Assessment Virtual Based on Interactive Lecture Demonstration (ILD) to Support Employability Skills <i>Kissi Marwanti, Suberman Suberman, Firmanul Catur Wibowo, Dina Rahmi Darman, Yudi Guntara</i>	1 – 8
Improving Students' Creative Thinking Skills Using Problem-Based Learning (PBL) Models Assisted by Interactive Multimedia <i>Lukman Nulbakim, Fajar Rizki Setiawan, Asep Saefullah</i>	9 – 16
Designing MOOCs with VMS (Virtual Microscopic Simulation) for Measurement Student's Level Understanding (LU) <i>Sisi Saptria Dewi, Suberman Suberman, Firmanul Catur Wibowo, Dina Rahmi Darman, Aji Pancer Agung Rino, Ilham Akbar Darmawan</i>	17 – 24
The Experimental Study of Kinesthetic Style Student Learning Outcomes in Remedial Teaching Assisted by Projectile Motion Props <i>Sari Eka Putri, Iwan Permana Suwarna</i>	25 – 36
The Development of Horizontal Anchor Items Test Tool by Rasch Model for Physics National Examination using Macromedia Flash <i>Yetti Supriyati, Raibanati Raibanati, Wirda Nilawati</i>	37 – 50
The Development of Thermodynamics Law Experiment Media Based on IoT: Laboratory Activities Through Science Problem Solving for Gifted Young Scientists <i>Yeni Rima Liana, S Linuwih, S Sulhadi</i>	51 – 64
The Design of One-Dimensional Motion and Two-Dimensional Motion Learning Media Using Digital Camera and Tracker-Based Air Track <i>Fransisca Indra Dewi, Nur Aji Wibowo, Debora Natalia Sudjito, Ferdy Rondonuwu</i>	65 – 74
The Students' Characters Analysis in Physics Learning Process <i>Anita Anita, Fety Novianty</i>	75 – 80
The Science Literacy Capabilities Profile Using Guided Inquiry Learning Models <i>Rudi Haryadi, Heni Pujiastuti</i>	81 – 88
Improvement of Science Process Skills Through Sound Variable Intensity Level Tool Kit <i>Royhanun Athiyyah, Taufiq Al Farizji, Dwi Nanto</i>	89 – 96
The Local Wisdom-Based STEM Worksheet to Enhance the Conceptual Understanding of Pre-service Physics Teacher <i>Indri Sari Utami, Mudmainab Vitasari, Indah Langitasari, Iwan Sugihartono, Yuli Rahmawati</i>	97 – 104
An Investigation of Physics Teachers' Multiple Representation Ability on Newton's Law Concept <i>Masrifah Masrifah, Agus Setiawan, Parlindungan Sinaga, Wawan Setiawan</i>	105 – 112
The Development of Blended Learning Model using Edmodo to Train Student Critical Thinking Skills on Impulse-Momentum Topic <i>Yus Rama Denny, Indri Sari Utami, Siti Robanah, Dewi Mulyati</i>	113 – 120

- The Effect of Quick on The Draw Model Assisted by The Physics Learning Book Integrated Pancasila Values on Critical Thinking Skill** 121 – 130
Imam Arifin, Insib Wilujeng, Jumadi Jumadi
- Instructional Technology: Teacher's Initial Perception of TPACK in Physics Learning** 131 – 138
Depi Oktasari, Disa Hediansab, Jumadi Jumadi, Warsono Warsono