

STAFF HANDBOOKS



(SCOPUS) (SINTA)

Name	<i>Dr. Hadi Nasbey, S.Pd., M.Sc.</i>
Position	<i>Lecturer in Physics Education Study Program, State University Jakarta</i>
Educational Backgrounds	<ol style="list-style-type: none"> 1. <i>Bachelor's Degrees in Physics Education, Jakarta State University(2002)</i> 2. <i>Master's Degrees in Physics, Gadjah Mada University (2009)</i> 3. <i>Doctoral Degrees in Physics, Gunma University (2019)</i>
Academic Career (Employment)	<ol style="list-style-type: none"> 1. <i>2002 – 2005 Physics subject teachers of Laboratory Highschool/Jakarta</i> 2. <i>2005 – Now Lecturer of Physics Education Program, Jakarta State University</i> 3. <i>2018-2019 Representative Decal III Student Affairs Sector</i> 4. <i>2020-Now Coordinating program Education Physics</i>
Research and Development projects over the last 5 years	<ol style="list-style-type: none"> 1. <i>2020- ENHANCEMENT ABILITY THINK CRITICAL STUDENT THROUGH MODEL LEARNING SELF-ORGANIZED LEARNING ENVIRONMENTS (SOLE) HELP PHET SIMULATION ON KINETIC THEORY MATERIAL GAS</i> 2. <i>DEVELOPMENT MEDIA LEARNING ASYNCHRONOUS INDEPENDENT BASED ON TRANSFORMATIVE ASSISTED LEARNING GOOGLE CLASSROOM ON MATERIAL FLUID DYNAMIC</i> 3. <i>STUDIES INTRODUCTION PREPARATION AND FABRICATION BRICKETS SHELL ADHESIVE COCONUT FLOUR TAPIOCA</i> 4. <i>DESIGN TURBINE SAVONIUS WITH VARIATION CURVAGE BLADE MATERIAL CAN PAINT</i> 5. <i>VEHICLE SPEED DETECTION SYSTEM USE HAAR BASED CASCADE RASPBERRY PI</i> 6. <i>PREPARATION AND MAKING BRICKETS CHARCOAL SHELL COCONUT WITH ADHESIVE FLOUR WHEAT</i>

7. *DEVELOPMENT APPLICATION ANDROID AS MEDIA LEARNING TOPIC MOVE CIRCULAR BASED TRANSFORMATIVE LEARNING*
8. *DEVELOPMENT OF A BOOK FOR ENRICHING MATERIAL KNOWLEDGE LAW ARCHIMEDES BASED ON A STEM APPROACH*
9. *DEVELOPMENT OF ELECTRONIC MODULES WITH AN APPROACH STEM (SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS) ON MATERIAL VECTOR AND KINEMATICS MOVE STRAIGHT PHYSICS*
10. *Physics Digital Learning Objects (DiLO-Phy): multi teaching materials representation use sway*
11. *2021- Design and Development a Wind Tunnels using the Honeycomb US a Wind Turbine Characterization Instruments*
12. *Electrodeposition of Ni-Nitride composite coatings: A review of recent study*
13. *Learning Media Development using Transformative Learning Strategy Android Application as a Distance Learning Support on Static Fluid*
14. *An Optical Heterodyne Technique for Dynamic Eddy-Current Damping Force Evaluation*
15. *Observation of chemicals evaporation (ethanol, methanol and 2-propanol) using vibrated microcantilever*
16. *Digital Text Security with Steganography Least Significant Bit and Audio Feature Extraction*
17. *A hybrid power plant development (a combination of wind and solar energy) as an alternative energy to faculty of mathematics and natural sciences University Jakarta State*
18. *Development of learning material in the form of a smartphone application on the subject of temperature and heat by inquiry-based learning (IBL) for physics high school subject*
19. *Interactive Book Augmented Reality (IBAR) for Lesson Physics on STEM*
20. *Synthesis of Ni-TiN/Si₃N₄ nanocomposite layers using the electrodeposition method*
21. *Interactive Book Augmented Reality (IBAR) for Lesson Physics on STEM*
22. *A hybrid power plant development (a combination of wind and solar energy) as an alternative energy to faculty of mathematics and natural sciences University Jakarta State*
23. *Development of learning material in the form of a smartphone application on the subject of temperature and heat by inquiry-based learning (IBL) for physics high school subject*
24. *2020- THE EFFECT OF TEMPERATURE VARIATIONS ON MORPHOLOGY MULTIPLE LAYERS COMPOSITE: A STUDY*

	<p>25. <i>STUDY INFLUENCE VARIATION TEMPERATURE ON PROCESS ELECTRODEPOSITION TO MORPHOLOGY LAYER COMPOSITE MATRIX METAL</i></p> <p>26. <i>STUDY INFLUENCE VARIATION TEMPERATURE TO STRUCTURE CRYSTAL VARIOUS LAYER COMPOSITE NICKEL</i></p> <p>27. <i>2019- Effect of Europium (Eu^{3+}) to the optical properties of the cullet glass $\text{Na}_2\text{O}-\text{Eu}_2\text{O}_3$</i></p> <p>28. <i>Unveil virtual physics laboratory (VPL) with battery microscopic simulation (BMS) to promote of problems solvi</i></p> <p>29. <i>2018 Adsorption and Pore of Physical-Chemical Activated Coconuts Shell Charcoal Carbon</i></p> <p>30. <i>Dynamic response of sand particles impacted by a rigid spherical object</i></p> <p>31. <i>Adsorption and Pore of Physical-Chemical Activated Coconuts Shell Charcoal Carbon</i></p>
Industry collaboration/ Community Services over the last 5 years	<p>1. <i>2022- Training Making Tool Practice Simple Material Physics Based Project-based Learning in MAN 2 Jakarta</i></p> <p>2. <i>2021- Training Making Application Android As Media Learning IPA Based PROBLEM BASE LEARNING</i></p> <p>3. <i>2020- Training Mini Making Microhydro For Senior High School student</i></p>
Patents and Intellectual Property Rights (IPR)	<p>1. <i>2022- Videos Learning Analysis Oscillation Harmonious Through Test And Simulation For Learning Physics Distance Far EC00202242512</i></p> <p>2. <i>2021- Program Identifier Tone Tool Music Kromong Use Convolutional Neural Networks EC00202169712</i></p> <p>3. <i>2019- Physics Modern Theory and The application EC00201932488</i></p>
Important publications over the last 5 years	<p>2022</p> <p>1. <i>Mechanical and Tribology Properties of Electrodeposited Ni-TiN/Si₃N₄ Composite Coatings</i></p> <p>2. <i>Development of Online Learning Tools for Elasticity Materials Using the 7E Learning Model in Class XI senior High School</i></p> <p>3. <i>Student responses to the development of online learning devices based guided inquiry in mechanical waves matter</i></p> <p>4. <i>Structure evolution due to heat treatment of aluminum nanoparticles with different sizes: A molecular dynamics study</i></p> <p>5. <i>Thermodynamic and structures properties of aluminum nanoparticles due to heat treatment: A molecular dynamics study 2021</i></p> <p>6. <i>Digital text security with least significant bit and steganography audio features extraction</i></p> <p>7. <i>Design and development of a wind tunnel using the honeycomb as a wind turbines characterization instruments</i></p> <p>8. <i>Development of video education using problem-based learning (PBL) to support M-learning on the kinetic gas</i></p>

	<p>9. <i>An Optical Heterodyne Technique for Dynamic Eddy-Current Damping Force Evaluation</i></p> <p>10. <i>Investigating the groundwater usage for environmental education: Case studies at 35 high school in Jakarta</i></p> <p>11. <i>The effect of the Q factors on the water humidity in the microcantilever sensorocantilever sensor</i></p> <p>12. <i>Development of learning material in the form of a smartphone application on the subject of temperature and heat by inquiry-based learning (IBL) for physics high school subject</i></p> <p>13. <i>The technology of interactive book augmented reality (IBAR) for facilitating students 21-century skills</i></p> <p>14. <i>Interactive Book Augmented Reality (IBAR) for lesson physics on STEM</i></p> <p>15. <i>Digital text security with steganography least significant beet and audio features extraction</i></p> <p>16. <i>Design and development of a wind tunnel using the honeycomb as a wind turbines characterization instruments</i></p> <p>17. <i>Development of videos education using problem-based learning (PBL) to support M-learning on the kinetic gas</i></p> <p>18. <i>An Optical Heterodyne Technique for Dynamic Eddy-Current Damping Force Evaluation</i> 2019</p> <p>19. <i>Unveil of virtual physics laboratories (VPL) with battery microscopic simulation (BMS) to promote of problem solving activity</i></p> <p>20. <i>Effect of Europium (Eu^{3+}) on the optical properties of the cullet glass $\text{Na}_2\text{O}-\text{Eu}_2\text{O}_3$</i> 2018</p> <p>21. <i>Adsorption and Pore of Physical-Chemical Activated Coconuts Shell Charcoal Carbon</i></p> <p>22. <i>Dynamic response of sand particles impacted by a rigid spherical object</i></p> <p>23. <i>New techniques for dynamic calibration of a force transducer using a drops balls tester</i></p>
<p>Activities in Professional organizational over the last 5 years</p>	<p>1. Member of Physical Society of Indonesia (PSI)</p>