

## STAFF HANDBOOKS



(SCOPUS) (SINTA)

<b>Name</b>	Andreas Handjoko Permana, M.Sc
<b>Position</b>	Lecturer in Physics Education
<b>Educational Backgrounds</b>	<ol style="list-style-type: none"> <li>1. Bachelor's degree Physics Education, University Country Jakarta</li> <li>2. Master's degrees Physics, Institute of Technology Bandung</li> </ol>
<b>Academic Career (Employment)</b>	<ol style="list-style-type: none"> <li>1. GPJM Physics Education Study Program</li> <li>2. Head Education Laboratory Physics</li> </ol>
<b>Research and Development project over the last 5 years</b>	<ol style="list-style-type: none"> <li>1. 2018-Module Which Be equipped with Technology Augmented Reality: An Easy Way to Learn Physics for Concepts and Phenomena Quantum di Class XII High School</li> <li>2. 2019-Development Book Enrichment Knowledge About Nuclear Power Plant Equipped With Augmented Reality For High School Students</li> <li>3. 2019-Book IPA with Technology Augmented Reality: Practice Ability Critical Thinking of Class VII Middle School Students</li> <li>4. 2019-Science Books Equipped with Augmented Reality Technology: Practice Ability Learning Scientific Student Junior high school Class VIII.</li> <li>5. 2019-Science Books Equipped with Augmented Reality Technology: Training Middle School Students' Higher Level Thinking Skills VIII.</li> <li>6. 2020-Development of Android Based E-Modules Using Methods Fodem On Dynamic Electrical Materials</li> </ol>

	<ol style="list-style-type: none"> <li>7. 2020-Development e-module based android with methodfodem on material sound waves and light waves</li> <li>8. 2021-The Development of Augmented Reality Application to Explore Fluid Concepts</li> <li>9. 2021-Hallwachs and the negatively charged particles'—the development of education comics</li> <li>10. 2021-Augmented reality in poster: Introduction sir Isaac Newton in thestudy of mechanics</li> <li>11. 2021-Design of computers based test with Moodle platforms for highschool physics class</li> <li>12. 2021-Exploring elasticity concept using augmented reality</li> <li>13. 2022-Development of Electronic Modules Using a Stem Approach (Science, Technology, Engineering And Mathematics) In Material Straight Motion.</li> <li>14. 2022-Development E-Module Astrophysics As Module Companion Astronomy Science Preparation.</li> </ol>
<b>Industry collaboration/ Community Services over the last 5 years</b>	<ol style="list-style-type: none"> <li>1. 2022-Training in Data Processing and Visualization with Language Programming Python at Ciracas Vocational School, East Jakarta</li> <li>2. 2021-PPM MGMP Physics Jakarta: Instrument Making Training Test Diagnostic Physics For Know There is Or No Misconceptions To Students.</li> <li>3. 2020-PKM MGMP SMA PHYSICS: Training on Preparing LKPD Based Scientific Learning</li> <li>4. 2019-Training Making Question Test Based Higher Orders Thinking Skills (HOTS) for high school teachers</li> </ol>
<b>Patents and Intellectual Property Right (IPR)</b>	<ol style="list-style-type: none"> <li>1. 2018-Device Media Learning Physics Basing Macros MediaFlash</li> <li>2. 2018-Two Device Test Learning Physics Which OwnAnchor Items Horizontal Based on Macromedia Flash</li> </ol>
<b>Important publications over the last 5 years</b>	<ol style="list-style-type: none"> <li>1. 2022- Development and evaluation of granular simulation for integrating computational thinking into computational physics courses</li> <li>2. 2022- The effectiveness of breakwater shape: Fluid particles behavioursimulation</li> <li>3. 2022- Explain the "unstable atoms" concept using the radioactive comics as physics media learning</li> <li>4. 2022- The development of 21st century skills and competence in service teacher through TPACK training workshop</li> <li>5. 2022- Augmented reality in poster: Introduction sir Isaac Newton in thestudy of mechanics</li> <li>6. 2022- The implementation of problem based learning in elasticities concept</li> <li>7. 2022- Design of computers based test with moodle platforms for high school physics class</li> </ol>

	<ol style="list-style-type: none"> <li>8. 2022- The development of moodle based e-learning for newtons' law in high school physics</li> <li>9. 2022- Hallwachs and the negatively charged particles'-the development of education comics</li> <li>10. 2022- Augmented reality in poster: Introduction sir Isaac Newton in the study of mechanics</li> <li>11. 2022- The implementation of problem based learning in elasticities concept</li> <li>12. 2022- Design of computer based test with moodle platform for high school physics class</li> <li>13. 2022- Designing an Android-Based Educational Games for High School Physics</li> <li>14. 2020- Train the computational thinking skills using problem-based learning worksheets for undergraduate physics students in computational physics courses</li> <li>15. 2020- Physics textbook enriched augmented reality: Easy way to understand the physical concept</li> <li>16. 2020- Student worksheet with ar videos: Physics learning media in laboratories for senior high school students</li> <li>17. 2020- Physics Textbook Enriched Augmented Reality: Easy Way to Understand The Physical Concept</li> <li>18. 2019- The development of an electricity book based on augmented reality technologies</li> <li>19. 2019- The properties of zinc sodium phosphate glass system with the various concentration of chromium oxide doped</li> <li>20. 2019- The 3-D animation of radiation concept using augmented reality technology</li> <li>21. 2019- The development 3-D augmented reality animation on radioactive concept</li> <li>22. 2019- The development of an electricity book based on augmented reality technologies</li> <li>23. 2019- The properties of zinc sodium phosphate glass system with the various concentration of chromium oxide doped</li> <li>24. 2018- The simulation of a symmetric quantum key distribution</li> <li>25. 2018- Simulation of granular in two dimensions: The effect of particles velocity on rigid wall boundary</li> <li>26. 2018- Development of Thermal Radiation Experiments Kits Based on Data Logger for Physics Learning Media</li> </ol>
<p><b>Activities in Professional organizational over the last 5 years</b></p>	<ol style="list-style-type: none"> <li>1. Member of Physical Society of Indonesia (PSI)</li> </ol>