(SCOPUS) **(SINTA)**

Name	Dr.rer.nat Bambang Heru Iswanto, M.Si.
Position	Lecturer in Physics Education
Educational Background	1. Bachelor's degree (Physics Education), IKIP Jakarta. 2. Master's degree (Physics), ITB Bandung. 3. Doctoral degree (Artificial Intelligence) – Technische Universitaet Berlin (TU Berlin), Jerman
Academic Career (Employment)	Lecturer, Master of Physics Study Program, Faculty Mathematics and Natural Sciences, Jakarta State University, Jakarta 13220, Indonesia.
Research and Development project over the last 5 years	1. 2021 - Simulation Of The Movement Of The Covid-19 Virus Droplets Using The Monte Carlo Method. 2. 2021 - Improving Tea Leaf Detection Based On Computer Vision Using Wavelet And Fuzzy Fusion. 3. 2020 - Introduction To Tea Plant Quality Using Digital Image And Machine Learning Methods. 4. 2019 - Machine Learning Analysis Of Magnetic Properties And Soil Geochemical. 5. 2019 - Development Of Quantum Cryptography-Based Document Security System Using The Event By Event Method. 6. 2018 - Development Of Quantum Cryptography-Based Document Security System Using The Event By Event Method.
Industry collaboration/ Community Services over the last 5 year	1. 2021 - Literacy And Ict Skills Development For Indonesia Workers In Singapore. 2. 2021 - Using Audiosonic To Improve Quality Of Physics Learning In High Schools In Jatisampurna District, Bekasi City, West Java. 3. 2020 - Computer Simulation Programming Training For Physics Teacher In Bogor District. 4. 2019 - Ict Study In Physics Learning.

Patents and Intellectual Property Right (IPR)	1. 2021 - Learning Media. 2. 2020 - Tea Leaf Image Feature Extraction Program With DTCWT-GLC in Matlab. 3. 2020 - Magnetic Force Demonstration on Cylinder Metal in Straws.
Important publications over the last 5 years	1. 2021 - Study Of Tofu Wastewater Treatment Using Anaerobic Baffled Reactor: Laboratory Scale 2. 2021 - Wastewater Treatment For Tofu Home Industries In Semanan, West Jakarta Using Electrocoagulation Method With Electrode Al-Stainless Steel 3. 2021 - Virtual Test Instruments To Measure Scientific Literacy Of High School Students On Work And Energy 4. 2021 - Visualization Lorentz Force With Tea Leaves For Studying Magnetic Field In Senior High School 5. 2021 - Website Of Physics Instructional (Wopi): Learning Physics From Home During COVID-19 6. 2021 - Feature Extraction Of Tea Leaf Images Using Dual-Tree Complex Wavelet Transform And Gray Level Co-Occurrence Matrix 7. 2021 - Augmented Reality Geometrical Optics (AR-Gios) For Physics Learning In High Schools 8. 2021 - Virtual Microscopic Simulation (VMS) For Physics Learning Of The Photoelectric Effect In High School 9. 2021 - Development Of Android Physics Applications (APA) As Learning Media On Dynamic Fluid Concepts 10. 2021 - Four Tier Test (FTT) Development In The Form Of Virtualization Static Fluid Test (VSFT) Using Rasch Model Analysis To Support Learning During The Covid-19 Pandemic 11. 2021 - Determination Of Springs Constant By Hooke’s Law And Simple Harmonic Motion Experiment 12. 2021 - Using Accelerometer Smartphone Sensor And Phyphyox For Friction Experiment In High School 13. 2021 - Video Based Experiment To Determine Focal Length Of A Positive Lens In Physics Learning 14. 2021 - Faraday's Law Teaching Aids Using Magnetometers On Smartphone And Infrared Sensors For Electromagnetic Induction Learning 15. 2021 - MIX Reality Based Media Prototype For Learning Physics Of Gravity And Kepler’s Law 16. 2021 - Spring Oscillator As Case Based Learning (CBL) Device 17. 2021 - Development Of Sensor-Based Learning Tool For The Study Induction Magnetic Force For High School Students 18. 2021 - The Dynamics Of A Hockey Player Body On Passing The Ball 19. 2021 - Analysis On Interest Motivation Instrument (Iim) For Measure Of Interest And Motivation Of Study Doctoral Physics Education Using Rapidminer 20. 2021 - The Effect Of Inquiry Models And Motivation To Study On Students' Cognitive Learning Outcomes In Straight Motion Learning At Senior High School (A Case Study)

	21. 2021 - Sound Resonance Practice Device Based On Arduino Uno To Improve The Science Process Skills Of High School Students 22. 2021 - Osci-Meter": The Practice Device For Oscillation Motion Experiment Using Accelerometer In Smartphone To Improve High School Students' Analytical Thinking Skills 23. 2021 - Leaf Flakes For Learning Electric Fields In Senior High School 24. 2020 - Development Of Genetically Improved Farmed African Catfish, Clarias Gariepinus; A Review And Lessons Learned From Indonesian Fish Breeding Program 25. 2020 - Magnetic Susceptibility Of River Sediment In Polluted Area Of Traditional Gold Mining In Kuris Sumbawa Indonesia 26. 2020 - Identification Of Environments Based On Magnetic Susceptibility And Geochemical Data Using Multivariate Statistical Analysis 27. 2020 - Development Of Standardized Online Test To Assess The Students 21st Century Skills 28. 2020 - Development Of A PCR Marker For The Identification Of Resistance To Motile Aeromonad Septicemia Disease In African Catfish (Clarias Gariepinus) 29. 2020 - The Significance Of Tropical Microalgae Chlorella Sorokiniana As A Remediate Of Polluted Water Caused By Chlorpyrifos 30. 2019 - Removal Of Heavy Metal (Cu2+) By Thiobacillus Sp. And Clostridium Sp. At Various Temperatures And Concentration Of Pollutant In Liquid Media 31. 2019 - Delignification And Determination Of Sugar Concentration In Fertilizer As The Preliminary Process Of Bioethanol Production By Aspergillus Fumigatus 32. 2019 - Mobile Digital Education (MDE) For Increasing Competence Of Students Based On E-Characters Mental Revolution (E-CMR) 33. 2019 - Designing MOOCS With Virtual Microscopic Simulation (VMS) For Increasing Of Student's Levels Of Understanding 34. 2019 - Expected Likelihood Based Query For Active Learning Of Gaussian Mixture Models Based Classifiers 35. 2019 - The Simulation Of One-Time-Pad Quantum Key Distribution 36. 2019 - Kalman Filtering To Real-Time Trace Water Level Measurements Using Ultrasonic Sensor 37. 2019 - Selection Method To Identify The Dominant Elements That Contribute To Magnetic Susceptibility In Sediment 38. 2019 - Developing Practicum Device Using Magnetic Sensor For Circular Motion At Senior High School 39. 2019 - Bioremediation Of Soil Polluted With Copper (Cu2+) By Mixed Culture Bacteria Thiobacillus Sp. And Clostridium Sp. 40. 2018 - The Simulation Of A Symmetric Quantum Key Distribution 41. 2018 - Sentiment Analysis On Bahasa Indonesia Tweets Using Unibigram Models And Machine Learning Techniques

	42. 2018 - Early Warning System Of Flood Disaster Based On Ultrasonic Sensors And Wireless Technology 43. 2018 - Development Of Thermal Radiation Experiments Kit Based On Data Logger For Physics Learning Media 44. 2018 - Batch Leachate Treatment Using Stirred Electrocoagulation Reactor With Variation Of Residence Time And Stirring Rate 45. 2018 - Distribution Patterns Study Of Escherichia Coli As An Indicator For Ground Water Quality At Matraman District, East Jakarta 46. 2018 - Waste Utilization Of Red Snapper (Lutjanus Sp.) Fish Bone To Improve Phosphorus Contents In Compost.
Activities in Professional organizational over the last 5 years	