STAFF HANDBOOKS



(SCOPUS) (SINTA)

Name	Dr.rer.nat Bambang Heru Iswanto, M.Sc.	
Position	Lecturer in Physics Education	
Educational Background	 Bachelor's degrees (Physics Education), IKIP Jakarta. Master's degrees (Physics), ITB Bandung. Doctoral degrees (Artificial Intelligence) – Technische Universitat Berlin (TU Berlin), Germany 	
Academic Career (Employment)	Lecturer, Masters of Physics Study Program, Faculty Mathematics andNatural Sciences, Jakarta State University, Jakarta 13220, Indonesia.	
Research and Development project over the last 5 years	 2021 - Simulation Of The Movement Of The Covid-19 Virus Droplets Using The Monte Carlo Method. 2021 - Improvising Tea Leaf Detection Based On Computers Vision UsingWavelets And Fuzzy Fusion. 2020 - Introduction To Tea Plants Quality Using Digital Image AndMachine Learning Methods. 2019 - Machine Learning Analysis Of Magnetic Properties And Soil Geochemical. 2019 - Development Of Quantum Cryptography-Based Documents Security Systems Using The Event By Event Method. 2018 - Development Of Quantum Cryptography-Based Documents Security Systems Using The Event By Event Method. 	
Industry collaboration/ Community Services over the last 5 years	 2021 - Literacy And Ict Skills Development For Indonesia Workers In Singapore. 2021 - Using Audiosonic To Improve Quality Of Physics Learning In High Schools In Jatisampurna District, Bekasi City, West Java. 2020 - Computers Simulation Programming Training For PhysicsTeacher In Bogor District. 2019 - Ict Study In Physics Learning. 	

Patents and		2021 - Learning Media.
Intellectual Property	2.	2020 - Tea Leaf Image Feature Extraction Program With DTCWT-
Right (IPR)		GLC in Matlab.
	З.	2020 - Magnetic Force Demonstration on Cylinder Metal in Straws.
Important	1.	2021 - Study Of Tofu Wastewater Treatment Using Anaerobic
publications over the		Baffled Reactor: Laboratory Scale
last 5 years	2.	2021 - Wastewater Treatment For Tofu Home Industries In
last 5 years	۷.	
		Semanan, West Jakarta Using Electrocoagulation Method With
		Electrodes 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 Wavelets Transform And Grey Levels Co-Occurrence
		Matrix
	7	2021 - Augmented Reality Geometrical Optics (AR-Gios) For
	<i>``</i>	Physics Learning In High Schools
	Q	2021 - Virtual Microscopic Simulation (VMS) For Physics Learning
	0.	Of The Photoelectric Effect In High School
	0	•
	9.	2021 - Development Of Android Physics Applications (APA) As
	10	Learning Media On Dynamic Fluid Concepts
	10	2021 - Four Tiers 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 Smartphones Censorship And
		Phyphyox ForFriction 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
		Smartphones 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
		2021 - Development Of Sensor-Based Learning Tools For The
	17	StudyInduction Magnetic Force For High School Students
	18	. 2021 - The Dynamics Of A Hockey Player Body On Passing The
	10	Ball
	10	2021 - Analysis On Interest Motivation Instruments (Iim) For
	19	Measure Of Interest And Motivation Of Study Doctoral Physics
	20	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 TheScience Process Skills Of High School Students
22	2. 2021 - Osci-Meter": The Practice Device For Oscillation Motion
	Experiment Using Accelerometer In Smartphone To Increase High
	School Students' Analytical Thinking Skills
23	8. 2021 - Leaf Flakes For Learning Electric Fields In Senior High
	School
24	4. 2020 - Development Of Genetically Improved Farmed African
	Catfish, Clarias Gariepinus; A Review And Lessons Learned From
	Indonesian Fish Breeding Program
25	5. 2020 - Magnetic Susceptibility Of River Sediments In Polluted
	AreasOf Traditional Gold Mining In Kuris Sumbawa Indonesia
26	5. 2020 - Identification Of Environments Based On Magnetic
	Susceptibility And Geochemical Data Using Multivariate Statistics
	Analysis
27	7. 2020 - Development Of Standardized Online Test To Assess The
	Students 21st Century Skills
28	8. 2020 - Development Of A PCR Marker For The Identification Of
	Resistance To Motile Aeromonad Septicemia Disease In Africans
	Catfish (Clarias Gariepinus)
29	2. 2020 - The Significance Of Tropical Microalgae Chlorella
	Sorokiniana US A Remediate Of Polluted Water Caused By
	Chlorpyrifos
30	0. 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	2. 2019 - Mobile Digital Education (MDE) For Increasing
	Competence Of Students Based On E-Characters Mental Revolution
	(E-CMR)
33	8. 2019 - Designing MOOCS With Virtual Microscopic Simulation
	(VMS) For Increasing Of Students' Levels Of Understanding
34	2019 - Expected Likelihood Based Queries For Active Learning
	OfGaussian Mixture Models Based Classifiers
35	5. 2019 - The Simulation Of One-Time-Pad Quantum Key
	Distribution
36	5. 2019 - Kalman Filtering To Real Time Trace Water Levels
	Measurements Using Ultrasonic Sensors
37	7. 2019 - Selection Method To Identify The Dominant Elements
	That's itContribute To Magnetic Susceptibility In Sediments
38	8. 2019 - Developing Practicum Devices Using Magnetic
	Censorship ForCircular Motion At Senior High School
39	9. 2019 - Bioremediation Of Soil Polluted With Copper (Cu2+) By
	Mixed Culture Bacteria Thiobacillus Sp. And Clostridium Sp.
	2018 - The Simulation Of A Symmetric Quantum Key Distribution
41	2018 - Sentiment Analysis On Language Indonesia Tweets
	UsingUnibigram Models And Machine Learning Techniques

	42. 2018 - Early Warning Systems 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 US
	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	