

## Staff Handbook

<b>Name</b>	Mita Anggaryani		
<b>Post</b>	PhD in Science Communication		
<b>Academic career</b>			
<b>Academic</b>	<b>Institution</b>	<b>Year</b>	
Initial Academic Appointed as lecturer/instructor in Physics Educations			
Doctoral	Australia National University (ANU)	2015-2020	
Master of Science Education	Universitas Negeri Surabaya	2004-2007	
Bachelor of Physics Education	Universitas Negeri Surabaya	2000-2004	
<b>Employment</b>			
<b>Position</b>	<b>Employer</b>	<b>Period</b>	
Professor			
Associate Professor			
Assistant Professor	Universitas Negeri Surabaya		
Lecturer/ Instructor	Universitas Negeri Surabaya		
<b>Research and development projects over the last 5 years</b>			
<b>Name of Project or Research</b>	<b>Period</b>	<b>Partner (Mitra/ if applicable)</b>	<b>Amount of Financing</b>
DEVELOPMENT OF COURSE LEARNING PLAN FOR THE STUDY PROGRAM OF PHYSICS EDUCATION S-1 USING THE TEAM BASED PROJECT METHOD	2023		IDR 20.000.000 (€ 1,039)
PROSPECTIVE PHYSICS TEACHERS' PERCEPTION OF TORRICELLI'S THEOREM IN LEARNING STATIC FLUID USING THE VIDEO ANALYSIS TRACKER METHOD	2023		IDR 17.000.000 (€ 883,2)
DEVELOPMENT OF MODFIA (DIGITAL PHYSICS MULTIMEDIA MODULE): AS AN EFFORT TO IMPLEMENT SDGS IN MULTIMEDIA LECTURES IN PHYSICS DEPARTMENT, FMIPA UNESA	2023		IDR 20.000.000 (€ 1,039)
THE ROLE OF VR TECHNOLOGY IN THE TRANSFORMATION OF STEM-BASED PHYSICS LEARNING AS AN EFFORT TO IMPROVE THE	2024		IDR 30.000.000 (€1,558)

QUALITY OF PHYSICS EDUCATION BACHELOR GRADUATES IN THE GLOBAL ERA			
DEVELOPMENT OF THE 7E-POW (PREDICT-OBSERVE-WRITE) LEARNING MODEL USED BY VIRTUAL SIMULATION TO REDUCE THE QUANTITY OF MISCONCEPTIONS OF PROSPECTIVE STUDENT TEACHER ON THE TOPIC OF FLUIDS	2024		IDR 4.000.000 (€ 207,8)
PIONEER DEVELOPMENT OF SMART PHYSICS INTERACTIVE EDUCATIONAL TOOLS “SPINET”: DIGITAL LEARNING INNOVATION IN THE IMPLEMENTATION OF THE INDEPENDENT CURRICULUM	2024		IDR 75.000.000 (€ 3,896)
Graphene-Modified Titania Oxide (TIO/RGO) Nanomaterials Are Smart Photocatalyst Candidates to Support Sustainable Development Goals	2024		IDR 50.000.000 (€ 2,597)
DEVELOPMENT OF INTERACTIVE PHYSICS MULTIMEDIA ORIENTED ON LOCAL CULTURE TO IMPROVE CONCEPTUAL UNDERSTANDING	2024		IDR 20.000.000 (€ 1,039)
RENEWABLE ENERGY LEARNING TECHNOLOGY (RELT): A TOOL FOR COMMUNICATING RENEWABLE ENERGY IN KSDAL LECTURES	2024		IDR 20.000.000 (€ 1,039)
Website-Based Digital Learning Development with a PBL-STEAM Approach to Train ESD Competencies in Sustainable Science Education	2024		IDR 31.150.000 (€ 1, 618)
<b>Industry collaborations over the last 5 years</b>			
<b>Project title</b>		<b>Partners</b>	
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<b>Patents and proprietary rights</b>			
<b>Title</b>			<b>Year</b>
Stop-Go Physics Cards			2022
Smart Dad			2023
VIRRE Media Usage Guidelines			2023
Kit Virtual Reality Cardboard			2023
AFIKA Animation Video Media			2023
IV-GLOW (Interactive Video of Global Warming)			2024
TITANICS (Three-Dimensions Interactive Animation of Thermodynamics)			2024

Static Fluid Physics STEAM Teaching Materials		2024	
Interactive Image of Light Waves (GIGA)		2024	
Virtual Reality Hydroelectric (VIRRIC) as a Medium for Teaching Renewable Energy		2024	
<b>Important publications over the last 5 years</b>	<b>Total number= 88 publications</b> <b>total publications since the las 5 year= 59 publications</b>		
<b>Title and Author</b>	<b>Publisher/ Journal name</b>	<b>Publication date</b>	<b>Vol/Issue/ Page Number</b>
Implementation of Self-Directed Learning (SDL) in Online High School Physics Learning on the Topic of Newton's Laws SA Permatasari, M Anggaryani	PENDIPA Journal of Science Education	2021	5 (3), 403-411
Linking disaster preparedness education to risk awareness: Should we teach our kids about risk? M Anggaryani	Journal of Physics: Conference Series	2021	1805 (1), 012008
Teaching global warming with millealab virtual reality AI Agusty, M Anggaryani	Journal of Physics Educatio	2021	9 (2), 134-144
The use of STEM-Based virtual laboratory (PhET) of newton's law to improve students' problem solving skills SI Laila, M Anggaryani	Journal of Physics Education	2021	9 (2), 125-133
STEM in disaster learning media: A literature review AI Agusty, FA Alifteria, M Anggaryani	Journal of Physics: Conference Series	2021	2110 (1), 012016
Development of whiteboard animation learning media based on Sparkol Videoscribe on straight motion material for high school students in grade X Dr. Nur, M. Anggaryani	Educative: Journal of Educational Sciences	2022	4 (3), 3832-3843
Virtual Museum of Tsunami Project for Increasing Awareness of Disaster Risk Potential in Physics ClassRM W Devianti, M Anggaryani	Scientific Periodical of Physics Education	2022	10 (3), 271-285
Development of Virtual Reality Endogen Energy (VREE) media for physics learning mechanical wave on class XI A Kartikasari, M Anggaryani	Prisma Sains: Journal of Mathematics and Science Studies and Learning...	2022	10 (3), 466-477

Application of Quizizz Media on Static Fluid Material to Improve Physics Learning Outcomes of Grade XI Students  A Rahdina, M Anggaryani	Innovation in Physics Education	2022	11 (2), 1-10
E-book development using Kvisoft Flipbook Maker to improve learning outcomes on static fluid material  LMA Sumarsono, M Anggaryani	Innovation in Physics Education	2022	11 (2), 24-32
The influence of the STEM-based guided inquiry model on students' science process skills in the material of light waves in grade XI IPA SMA  FD Aprilia, M Anggaryani	PENDIPA Journal of Science Education	2023	7 (2), 241-248
Analysis of the pre-service physics teacher's ability to develop SDGs-oriented multimedia  A Kholiq, I Sucahyo, M Anggaryani, M Satriawan, M Habibbuloh	E3S Web of Conferences	2023	450, 01008
Virtual reality as experiential learning to promote stem-drr in tertiary education  M Anggaryani, T Prastowo, N Suprpto, J Lassa, M Madlazim, F Alifteria	ASM Science Journal	2023	18, 1-12
Development of virtual reality on material: Archimedes' Law (VIRMA) to improve student learning outcomes  DNB Prillyanti, M Anggaryani	Journal of Educational Technology Innovation	2023	10 (3), 311-325
Suitability of Torricelli's theorem formulation in cases of leaking reservoirs with video analysis tracker  M Habibbuloh, M Anggaryani, M Satriawan, O Saputra, A Zakaria	Journal of Physics: Conference Series	2023	2623 (1), 012021
Uniting cultures and promoting sustainable education: Batik diplomacy for Indonesian students in Taiwan to Support the SDGs  M Anggaryani, S Atmoko, M Satriawan, UA Deta, A Zakariah	E3S Web of Conferences	2024	568, 04006
Interactive Video of Rigid Body Equilibrium in Lamongan Boranan Dance  NNA Nasution, HZ Alhusni, W Astutik, M Anggaryani, O Saputra	JPPS (Journal of Science Education Research)	2024	64-79
How to Promote the Ability of Physics Teaching Materials Development through	Journal of Physics Education Research & Development	2024	10 (1), 15-26

Team-Based Project Learning? An Action Research Evidence  M Anggaryani, M Satriawan, O Saputra, M Habibulloh			
Measuring pre-service physics teachers' ability to create renewable energy learning media through project-based learning  M Satriawan, M Anggaryani, A Kholiq, I Sucahyo, PM Effendi	Journal of Physics: Conference Series	2024	2900 (1), 012048
Development of Virtual Reality Hydroelectric (VIRRIC) for teaching students about renewable energy  A Zakaria, M Anggaryani	ORBITA: Journal of Education and Physics	2024	10 (2), 164-172
Assistance in Making Dynamic Electricity KITS Based on Scientific Argumentation Skills for Physics Teachers in Sidoarjo Senior High School  UA Deta, MN Fahmi, A Nurlailiyah, R Rusmawati, M Anggaryani	Journal of Community Service	2025	5 (2), 767-774
" Belajar Sains Berkelanjutan" Website: Enhancing High School Education for Sustainable Development (ESD) Competencies in Global Warming and Renewable Energy.  N Shobah, E Hariyono, M Anggaryani, FB Ilhami, NF Citra	Journal of Science Learning	2025	8 (1), 84-99
AR LEARNING MEDIA-BASED DIGITAL BOOK AND MAZE CHASE GAME ON MAGNETIC FIELD MATERIAL  A Zakaria, I Sucahyo, M Anggaryani, M Satriawan, A Gunaifi Al-Irsyad	Journal of Physics Education	2025	4 (1), 43-55
Literature Study: Analysis of STEAM-Based Physics Learning Practices to Train Students' Creative Thinking Skills  RAN Rahman, I Sucahyo, M Anggaryani, NF Citra	Studies in Physics Teaching and Learning	2025	1 (1), 41-49
Bibliometric Study: Trends of Development Digital Media to Improve 21st Century Students' Skills in Physics Learning  MW Arrahmat, M Anggaryani, O Saputra, NM Hulu	Journal of Law and Bibliometrics Studies	2025	1 (2), 89-89
<b>Activities in specialist bodies over the last 5 years</b>			
<b>Organization</b>	<b>Role</b>	<b>Period</b>	



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