



Dr. Muhammad Satriawan, M.Pd
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Position	Lecturer of Lesson Planning and Material Teaching Development in Physics Education Pogram		
	Degree	University	Year
Academic career	The Bachelor Program at the Physics Education Department	Universitas Mataram, Indonesia	2006 - 2010
	Postgraduate Program in Science Education Department	Universitas Mataram, Indonesia	2010 - 2012
	The Doctoral Program in Science Education Department	Universitas Pendidikan Indonesia, Indonesia	2017 - 2021
Employment	Position	Employer	Period
	Physics Teacher	SMK N 8 Mataram	2010-2013
	A lecturer at Physics Education Program	STKIP Bima, Indonesia	2014-2022
	A lecturer at Physics Education Program	Universitas Negeri Surabaya (UNESA) Indonesia	2022 - Now
Research and Development project over the last 5 Years	Year and Title		
	<input type="checkbox"/> 2018-2019: Development of Education For Sustainable Oriented Character Learning Models to Form a Golden Generation with Character and Sustainable Insight <input type="checkbox"/> 2018: Material Teaching Development Based on Local Wisdom Character to Enhance Students' Creative Thinking Skills <input type="checkbox"/> 2020: Wave Energy Learning Project to Develop Critical Thinking Skills and Creative Thinking Skills Pre-Service Physics Teachers		
Patent and Proprietary Right	Tittle		Year
Publications and Potential	Unlimited Energy Source: A Review of Ocean Wave Energy Utilization and Its Impact on the Environment		2021

Articles over last 5 years	<i>Indonesian Journal of Science and Technology</i> 6 (1), 1-16	
	The students' Physics Problem Solving Skills in basic physics course <i>Journal of Physics: Conference Series</i> 1731 (1), 012078	2021
	A Contextual Semi-Assisted Project Based-Learning (SA-PjBL) about Ocean Wave Energy: Creative Thinking of Pre-service Physics Teachers. <i>Momentum: Physics Education Journal Momentum</i> , 5(2)	2021
	Designing of Environmental Physics Course Instruments about Ocean Wave Energy to Enhance Students' Creative Thinking Skills <i>Jurnal Penelitian Fisika dan Aplikasinya (JPFA)</i> 11 (1)	2021
	A Contextual Semi-Assisted Project-Based Learning on Ocean Wave Energy: Pre-service Physics Teachers' Perceptions <i>Jurnal Pendidikan Fisika</i> 9 (1), 1-13	2021
	Measuring level of reflective thinking of physics pre-service teachers using effective essay argumentation <i>Reflective Practice</i> 21 (4), 565-586	2020
	Low-cost ocean wave energy converter kit as a teaching tool of a new alternative energy source <i>Physics Education</i> 55 (5), 055019	2020
	Analysing of pre-service physics teachers critical thinking skills profile in ocean wave energy topic <i>Journal of Physics: Conference Series</i> 1521 (2), 022041	2020
	Fluid experiment design using video tracker and ultrasonic sensor devices to improve understanding of viscosity concept <i>Journal of Physics: Conference Series</i> 1521 (2), 022039	2020
	Implementation of education for sustainable development to enhance Indonesian golden generation character <i>Journal of Physics: Conference Series</i> 1521 (4), 042102	2020

	Physics learning based contextual problems to enhance students' creative thinking skills in fluid topic <i>Journal of Physics: Conference Series</i> 1521 (2), 022036		2020
	Adaptasi dan Mitigasi Bencana Alam untuk Mahasiswa Calon Guru Fisika Melalui Pengembangan LKM <i>Jurnal Penelitian Pembelajaran Fisika</i> 11 (1), 1-8		2020
	Analysis of Pre-Service Teachers' Reflective Thinking Ability Profile on Earth Physics Lectures <i>Jurnal Pendidikan Fisika</i> 8 (1), 56-63		2020
	Wave energy concept mastery relate on creative thinking skills of the pre-service physics teachers in environmental physics lectures <i>Journal of Physics: Conference Series</i> 1157 (3), 032044		2019
	The ocean climate phenomenon: the challenges of earth physics lectures in Indonesia <i>Journal of Physics: Conference Series</i> 1157 (3), 032038		2019
	Assessing students 21st century attitude and environmental awareness: promoting education for sustainable development through science education <i>Journal of Physics: Conference Series</i> 1157 (2)		2019
	Developing Education for Sustainable Development-Oriented-Character Learning Model for Indonesian Golden Generation <i>Asian Social Science</i> 15 (12), 7		2019
	Model Pembelajaran Berbasis Nilai Pendidikan Karakter Untuk Generasi Indonesia Abad 21 <i>Lentera Pendidikan: Jurnal Ilmu Tarbiyah dan Keguruan</i> 22 (2), 233-242		2019
	Pembelajaran Fisika Berbantuan Bahan Ajar Berbasis Kontekstual dengan Mengintegrasikan Kearifan Lokal Untuk Meningkatkan Penguasaan Konsep Fisika <i>Jurnal Penelitian Pembelajaran Fisika</i> 8 (2)		2019
Activities in Specialist Bodies	Organization	Position	Period

	Perkumpulan Pendidik IPA Indonesia - NTB	Coordinator PPII Bima Town-NTB	2018-2019
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