



UNIVERSITAS PENDIDIKAN INDONESIA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES EDUCATION
PHYSICS EDUCATION STUDY PROGRAM

Jalan Dr. Setiabudi 229 Bandung 40154
 Tel: (022) 204548 Fax: (022) 2004548
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STAFF HANDBOOK

Name	Lasmita Sari, M.Si				
Position	Physics				
Academic Career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>		
	Lecturer	Universitas Pendidikan Indonesia	2024 - now		
	<i>Habilitation (Post-doctoral)</i>	<i>Institution</i>	<i>Year</i>		
	-	-			
	<i>Doctorate</i>	<i>Institution</i>	<i>Year</i>		
	-	-			
	<i>Master</i>	<i>Institution</i>	<i>Year</i>		
Physics	Institut Teknologi Bandung	2018-2019			
<i>Undergraduate degree</i>	<i>Institution</i>	<i>Year</i>			
Physics	Universitas Jenderal Soedirman	2012-2016			
Employment	<i>Position</i>	<i>Employer</i>	<i>Year</i>		
	Lecturer	Dean	2024-now		
Research and development projects over the last 5 years	Name of project or research focus				
	Period and any other information				
	Partners, if applicable				
	Amount of financing				
	No	Year	Title of Research Project	Financing	
				Sources	Amount (Million Rp)
	1	2025	IoT-Land Monitoring: Sistem Pemantauan Kondisi Tanah Dan Iklim Mikro Berbasis IoT Untuk Optimalisasi Produksi Biji Kopi Di Kabupaten Garut	DIPUU UPI	100.000.000
2	2024	Pengembangan Problem Solving Laboratory terintegrasi Augmented Reality (PSLab-AR) untuk Meningkatkan Kemampuan Pemecahan Masalah dan Level of Understanding Siswa Sekolah Dasar	Kemdiktisainstek	130.520.000	
3	2023	Pengembangan Problem Solving Laboratory Terintegrasi Augmented Reality (PSlab-AR) Untuk Meningkatkan Kemampuan Pemecahan Masalah Dan Level Of Understanding Siswa Sekolah Dasar Dan Sekolah Menengah Pertama	Kemdiktisainstek	354.968.000	
4	2023	Pengembangan STEM Education dengan Modul Energi Terbaru Sel Surya untuk Mahasiswa Pendidikan Fisika	Institut Pendidikan Indonesia Garut	5.000.000	
5	2022	Efektivitas Model Problem Based Learning Pada Perkuliahan Termodinamika Dalam Meningkatkan Pemahaman Konsep Fisika Dan Keterampilan Berargumentasi Ilmiah	Kemdiktisainstek	19.300.000	
Industry collaborations	Project title partners Proyek hilirisasi bersama mitra Koperasi Sari Buah Kopi				



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over the last 5 years				
Patents and proprietary rights	No	Title	Type	Year
	1	Aplikasi Augmented Reality Model PSLab-AR	Hak Cipta Nasional	2024
Important publications over the last 5 years	<i>Selected recent publications from a total of approx. (give total number): 24 Publication (Scopus Indexed) Author(s)</i> <i>Title</i> <i>Any other information</i> <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>			
	No	Publication	Author (s)	
	1	Exploring effective strategies for teaching STEM electricity and magnetism in electrical engineering education a focus on vocational schools in Indonesia. InAIP Conference Proceedings 2025 Jul 16 (Vol. 3141, No. 1, p. 050006). AIP Publishing LLC	Arip Nurahman, Ali Ismail, Ida Kaniawati, Surya Gumilar, Eka Cahya Prima, Endi Suhendi, Irma Fitria Amalia, Lasmita Sari , Rizal Adimayuda	
	2	Analisis Kebutuhan Asesmen Working Memory dalam Pembelajaran Fisika di Sekolah Inklusif: Kajian Literatur. U-Teach: Journal Education of Young Physics Teacher. 2025 Jun 3;6(1):61-72.	Lasmita Sari , Hera Novia, Ana Fatimatuzzahra, Fitria Arifiyanti	
	3	High school students' preconceptions about the concept of climate change considered from the perspective of visual representation. Research in Physics Education. 2024 May 26;3(1):26-36.	S Yani, L Sari , IF Amalia, A Nurahman	
	4	Development of an augmented reality integrated problem-solving laboratory model (PSLab-AR) for electricity concepts to enhance the students' understanding of concepts. Momentum: Physics Education Journal. 2024 Jan 31;8(1):1-0.	A Ismail, DD Bhakti, L Sari , LD Kernalia, S Saprudin	
	5	Integration of augmented reality based on android in the problem-solving laboratory. Journal of Engineering Science and Technology. 2024;19(2):70-9.	Ismail A, Bhakti DD, L Sari , Kernalia LD, Susilawati A.	
	6	Analysis of diagrams in the kinetic gas theory materials in high school physics textbooks: a content analysis. Research in Physics Education. 2023 Dec 26;2(2):69-79.	Agustina R, Gumilar S, Sari L	
	7	Inovasi Literasi Digital di Desa Dunguswiru Kabupaten Garut Pendekatan Kuliah Kerja Nyata Bersama Institut Pendidikan Indonesia dan Relawan TIK Indonesia. Konferensi Nasional Literasi Digital dan Kerelawanan. 2023 Dec 24;1:7-13.	Nurahman A, Kurnia A, Muljanto S, Suherman A, Ismail A, Gumilar S, FA I, Sari L , Adimayuda R, Ma'arif S.	
	8	Applying Problem-Based Learning in Thermodynamics to Enhance Comprehension of Physics Concepts and Argumentation Skills. Tadris: Jurnal Keguruan dan Ilmu Tarbiyah. 2023 Jun 29;8(1):209-20.	Sari L , Adimayuda R, Gumilar S, Nurahman A, Ashel H.	
	9	Vocational school students' perceptions toward science learning activities in the context of fashion design. Research in Physics Education. 2023 Apr 25;2(1):26-37.	Fadhilah DN, Sari L , Nurahman A.	
	10	Improving STEM literacy on the topic of organic solar cells through an ai-powered personalized learning platform: a case study of pre-physics teachers.	Nurahman A, Prima EC, Kaniawati I, Suhendi E, Hamdani NA, Ismail A,	



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		Proceedings Series of Educational Studies. 2023:61-72.	Gumilar S, FA I, Sari L , Adimayuda R.
	11	Application of GUI Matlab in physics: Planetary motion (Kepler's Law). InJournal of Physics: Conference Series 2021 Jul 1 (Vol. 1987, No. 1, p. 012045). IOP Publishing.	Sari L , Guspita N, Srigutomo W, Amalia IF, Adimayuda R.
	12	Assessing two-dimensional collisions second-years students using PhET simulations on momentum and impulse concept. InJournal of Physics: Conference Series 2021 Apr 1 (Vol. 1869, No. 1, p. 012204). IOP Publishing.	Adimayuda R, Sari L , Ismail A, Amalia IF, Gumilar S, Samsudin A.
	13	An analytical Generalized Reciprocal Method (GRM) for near-surface seismic refraction investigations. InJournal of Physics: Conference Series 2021 Apr 1 (Vol. 1869, No. 1, p. 012199). IOP Publishing.	Sari L , Srigutomo W, Adimayuda R, Andriyani D, Gumilar S, Amalia IF
Activities in specialist bodies over the last 5 years	Organization		
		Physical Society of Indonesia	member
		European Association for Geoscientists and Engineers (EAGE)	member
			2021-now
			2021-2025