

STAFF HANDBOOK



Name	Muhamad Arif Mahdiannur, S.Pd., M.Pd.		
Position	Lecturer at Science Education, Universitas Negeri Surabaya (UNESA)		
Academic Career	Bachelor Degree	Physics Education, Mulawarman University	Graduated 2011
	Master Degree	Science Education, Universitas Negeri Surabaya	Graduated 2016
Employment	Lecturer (Assistant Professor)	Mulawarman University	2018 - 2019
		Universitas Negeri Surabaya	2019 - now
Research and Development Project over the last 5 years	1. Analisis engagement level dan kinerja mahasiswa calon guru IPA pada LMS berbasis Moodle untuk mengembangkan kompetensi deep learning [<i>Analysis of engagement levels and performance of prospective science teachers on a Moodle-based LMS to foster deep learning competencies</i>]		2025
	2. Membangun keterampilan berpikir kreatif mahasiswa melalui model CBL STEM pada materi getaran [<i>Developing students' creative thinking skills through the STEM CBL model in the topic of vibrations</i>]		2024
	3. Eksplorasi model pengembangan profesionalisme calon guru dengan scaffolding dalam online collaborative problem solving [<i>Exploring models of professional development for prospective teachers using scaffolding in online collaborative problem solving</i>]		2024
	4. Implementasi model pembelajaran ISOCC untuk membelajarkan literasi informasi dan keterampilan argumentasi berorientasi microlearning [<i>Implementation of the ISOCC learning model to enhance information literacy and argumentation skills through microlearning</i>]		2023
	5. Implementasi cybergogy untuk mengembangkan kapabilitas riset pada mahasiswa calon guru IPA [<i>Applying cybergogy to develop research capabilities among prospective science teachers</i>]		2022
			2021

	6. Meningkatkan literasi sains pebelajar dengan media pembelajaran berbasis gawai [<i>Enhancing learners' scientific literacy through mobile-based learning media</i>]	
Industry Collaborations over the last 5 years	1. Implementasi kecerdasan buatan (teachable machine) berbasis deep learning untuk pengembangan media pembelajaran interaktif bagi guru IPA SMP Kabupaten Tuban [<i>Implementation of artificial intelligence (teachable machine) based on deep learning for the development of interactive learning media for Junior High School science teachers in Tuban Regency</i>]	2025
	2. Pembimbing OSN SMP Kabupaten Mojokerto [<i>Mentor for Junior High School Science Olympiad in Mojokerto Regency</i>]	2024
	3. Pendampingan guru IPA SMP dalam mendesain modul ajar Kurikulum Merdeka dengan strategi understanding by design di Kabupaten Pasuruan [<i>Assistance for Junior High School science teachers in designing teaching modules for the Merdeka Curriculum using the Understanding by Design strategy in Pasuruan Regency</i>]	2024
	4. Advokasi berjenjang dan social movement pekerja migran Indonesia asal Ponorogo di Hong Kong melalui pembentukan komunitas kedaerahan [<i>Tiered advocacy and social movement for Indonesian migrant workers from Ponorogo in Hong Kong through the establishment of regional communities</i>]	2024
	5. Pelatihan pembuatan video pembelajaran bagi guru IPA sesuai prinsip productive use of video framework [<i>Training on developing instructional videos for science teachers based on the principles of the Productive Use of Video framework</i>]	2023
	6. Pelatihan perancangan pembelajaran berdiferensiasi sesuai kerangka Kurikulum Merdeka bagi guru IPA di Kabupaten Magetan [<i>Training on designing differentiated instruction in line with the Merdeka Curriculum framework for science teachers in Magetan Regency</i>]	2022
	7. Pelatihan pembuatan media blended learning dengan pendekatan saintifik berbasis Wakelet bagi guru IPA di Kabupaten Gresik [<i>Training on creating blended learning media with a scientific approach using Wakelet for science teachers in Gresik Regency</i>]	2021

Patents and Property right	Property right (Copyright): 1. Policy Brief on the Implementation of the Nusantara Capital City (IKN) Education Roadmap Toward the Smart City of Nusantara (Registration No. 000810296, officially recorded by the Ministry of Law and Human Rights of the Republic of Indonesia, 2024) 2. Learning Management System Ecosystem Model for Early Science Teacher Education (Registration No. 000544300, officially recorded by the Ministry of Law and Human Rights of the Republic of Indonesia, 2023)	2024 2023
Important Publications over the last 5 years	1. Qadar, R., Syam, M. & Mahdiannur, M.A. (2025) Analyzing high school physics teachers' understanding of cognitive process and knowledge dimensions in assessment design using the revised Bloom's taxonomy. Discover Education 4, 387. Springer. https://doi.org/10.1007/s44217-025-00807-w 2. Mahdiannur, M. A., Martini, Astriani, D., Rosdiana, L., & Fauziah, A. N. M. (2024). Prospective Science Student Teachers' Online Learning Environment Experiences: Measurement Based on the Net Promoter Score. International Journal of Interactive Mobile Technologies (IJIM), 18(06), pp. 112–125. https://doi.org/10.3991/ijim.v18i06.4794 3. Purnomo, A. R., Mahdiannur, M. A., Sari, D. A. P., Budiyanto, M., & Astriani, D. (2024, May). The effectiveness of mind-map as a pedagogical tool in enhancing conceptual understanding of photosynthesis. In AIP Conference Proceedings (Vol. 3116, No. 1, p. 100015). AIP Publishing LLC. 4. Purnomo, A. R., Yulianto, B., Mahdiannur, M. A., & Subekti, H. (2023). Embedding sustainable development goals to support curriculum merdeka using projects in biotechnology. International Journal of Learning, Teaching and Educational Research, 22(1), 406-433. 5. Purnomo, A. R., Subekti, H., & Mahdiannur, M. A. (2022). A Study of Preservice Science Teachers' Articles: What do They Think the Educational Goal in SDGs should be Focused on? In SHS Web of Conferences (Vol. 149, p. 01001). EDP Sciences. 6. Martini, M., Widodo, W., Qosyim, A., Mahdiannur, M. A., & Jatmiko, B. (2021). Improving undergraduate science education students' argumentation skills	2025 2024 2024 2023 2022 2021

	through debates on socioscientific issues. Jurnal Pendidikan IPA Indonesia, 10(3), 428-438.	
Activities in specialist bodies over the last 5 years	Members of the Indonesian Science Educators Association	2021- now
	Members of the Physical Society of Indonesia	2022 - now