

STAFF HANDBOOK



Name	Dr. Laily Rosdiana, S.Pd., M.Pd.		
Position	Lecturer at Science Education, Universitas Negeri Surabaya (UNESA)		
Academic Career	Bachelor Degree	Physics Education, Universitas Negeri Surabaya	Graduated 2004
	Master Degree	Science Education, Universitas Negeri Surabaya	Graduated 2006
	Doctorate	Physics Education, Universitas Negeri Malang	Graduated 2025
Employment	Lecturer	Universitas Negeri Surabaya	2008 - now
Research and Development Project over the last 5 years	1. Identification and Utilization of Technology-Based Innovation Systems in Strengthening The Effectiveness of the FMIPA Integrity zone 2. Social Issues-Based STEAM Project Development to Improve Environmental Problem Solving Ability in Supporting Sustainable Development 3. Implementation of H5P and AI-based Deep Learning to Strengthen Science Literacy of Prospective Science Teacher Students 4. Study of Abductive Ability Profile and Scientific Argumentation of Prospective Science Teachers in Case-Based Learning 5. Mapping of Student Organization Work Programs in the FMIPA Environment that Support the IKU of Surabaya State University 6. Competency Model: Implementation of Structured Assignments for Developing TPACK-Based Teaching Modules for Prospective Science Teachers 7. Development of activity-based learning and reflection assisted by H5P to strengthen the Pancasila student profile of prospective science teachers 8. Desain Culturally Responsive Science Teaching untuk Meningkatkan Kompetensi Guru Dalam Penyusunan Projek Penguatan Profil Pelajar Pancasila 9. Implementation of conditional activity mode in LMS on student participation in hybrid learning		2025
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	10. The Use of Analogy Strategy to Improve Conceptual Understanding and Train Students' Science Process Skills in Electrical Circuits 11. Development of Activity-Based Learning and H5P-Assisted Reflection to Strengthen the Pancasila Student Profile of Prospective Science Teachers 12. Visual-Symbolic Representation Strategy in Training Students' Critical Thinking Skills in Electrical Circuit Material 13. Integration of Steam-Project Based Learning (PJBL) to Train Critical Thinking Skills of Prospective Science Teacher Students 14. Problem Solving Perspective Through Prospective Science Teachers' Representations on Dynamic Electricity Material	2023 2022 2022 2021 2021
Industry Collaborations over the last 5 years	1. Indonesian Talent Development Teacher 2. PPG Teacher Performance Test Assessor	2025 2018-now
Patents and Property right		
Important Publications over the last 5 years	1. Rosdiana, L. , Parno, Sutopo, & Taufiq, A. (2025). Enhancing students' scientific argumentation ability on dynamic electric material through analogy and representation-based learning. <i>Perspektivy nauki i obrazovania = Perspectives of Science and Education</i> , (3), 183–200. Link 2. Mahdiannur, M. A., Astriani, D., Rosdiana, L. , & Maulida Fauziah, A. N. (2024). Prospective Science Student Teachers' Online Learning Environment Experiences: Measurement Based on the Net Promoter Score. <i>International Journal of Interactive Mobile Technologies</i> , 18(6). Link 3. Sari, D. A. P., Widodo, W., Rosdiana, L. , Sari, D. P., & Aulia, E. V. (2023). H5P Based Learning Media to Reinforce Pre-Service Science Teachers' Critical Thinking Skills: Development and Validation. <i>Jurnal Penelitian Pendidikan IPA</i> , 9(12), 10689-10697. Link 4. Astriani, D., Rosdiana, L. , Fauziah, A. N. M., & Purnomo, A. R. (2023). STEAM-Project Based Learning (PjBL): Efforts to Train Critical Thinking Skills for Prospective Science Teacher. <i>Jurnal Penelitian Pendidikan IPA</i> , 9(10), 7909-7915. Link 5. Rosdiana, L., Mahdiannur, M. A., Astriani, D., Setiawan, B., & Martini, M. (2023). Pelatihan Pembuatan Video Pembelajaran Sesuai Prinsip	2025 2024 2023 2023 2023

	<p>Productive Use of Video Framework. JMM (Jurnal Masyarakat Mandiri), 7(5), 5156-5164. Link</p> <p>6. Mahdiannur, M. A., Erman, E., Martini, M., Nurita, T., & Rosdiana, L. (2022). Eksplorasi pengetahuan guru IPA SMP tentang pembelajaran berdiferensiasi dalam kurikulum merdeka: pengukuran berdasarkan complex multiple-choice survey. Jurnal Tarbiyah, 29(2), 295-310. Link</p> <p>7. Rosdiana, L., Martini, M., Hidayati, S. N., Qosyim, A., & Mursyidah, R. W. (2021). Analysis of problem solving on the argumentation ability of students under the topic of dynamic electricity. In E3S Web of Conferences (Vol. 328, p. 02011). EDP Sciences. Link</p> <p>8. Rosdiana, L., & Ulya, R. M. (2021, May). The effectiveness of the animation video learning earth's layer media to improve students' concept understanding. In Journal of Physics: Conference Series (Vol. 1899, No. 1, p. 012172). IOP Publishing. Link</p>	<p>2022</p> <p>2021</p> <p>2021</p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>Members of the Indonesian Science Educators Association</p>	<p>2021-2026</p>