STAFF HANDBOOK



Name	Dr. Ahmad Fauzi Hendratmoko, M.Pd.		
Position	Lecturer at Science Education, Universitas Negeri Surabaya		
Academic Career	Bachelor Degree	Physics Education, Universitas Jember	Graduated 2013
	Master Degree	Science Education, Universitas Negeri Surabaya	Graduated 2016
	Doctoral Degree	Science Education, Universitas Negeri Surabaya	Graduated 2024
Employment	Lecturer	Universitas Negeri Surabaya	2023 - now
Research and Development Project over the last 5 years	1. Development of Chemistry Learning Tools Based on Ethno-Socioscientific Issues with AI-Personalized Learning Model to Optimize Argumentation Skills of High School Students		2025
	2. Artificial Intelligence (AI)-Based Self-Assessment Instrument to Improve Students' Argumentation Skills in Science Learning		2025
	3. Implementation of Socio-Scientific Inquiry-Based Blended Learning (SSIBBL) to Improve the Scientific Literacy of Prospective Science Teacher Students: An Effort to Create Scientifically Literate and Responsible Citizens in Addressing Various Global Problems		2025
	4. The Impact of ChatGPT Integration in the Debate Based on Inquiry Learning (DBOIL) Model on the Argumentation Skills of Prospective Science Teacher Students		2025
	5. Exploring Local Wisdom on the Reality of Climate Change in Science Learning to Support the SDGs: A Comparative Study of Schools in Small Islands of Indonesia and the Philippines		2025
	6. Development of Ethnoscience Learning Tools in Reconstructing and Explanating Indigenous Science for the Recognition of Local Wisdom and Sustainability		2024
	7. Competency Model: Implementation of Structured Assignments for Developing TPACK-Based Teaching Modules for Prospective Science Teachers		2024
Industry Collaborations over the last 5 years	1. Implementation of Artificial Intelligence (Teachable Machine) Based on Deep Learning for the Development of Interactive Learning Media for Science Teachers of Middle Schools in Tuban Regency		2025

	2. Academic Skills Test Development Team at the Education Assessment Center, Education Standards, Curriculum, and Assessment Agency, Ministry of Primary and Secondary Education of the Republic of Indonesia	2025
	3. Training and Mentoring in Mapping Student Learning Styles Through Diagnostic Assessment for Teachers at the Indonesian School Learning Center in Kuala Lumpur, Malaysia	2024
	4. Assisting Junior High School Science Teachers in Creating Student Worksheets Using the Culturally Responsive Teaching Approach to Realize the Implementation of the Independent Curriculum	2024
	5. Scientific Literacy Test Development Team at the Education Assessment Center, Education Standards, Curriculum, and Assessment Agency, Ministry of Primary and Secondary Education of the Republic of Indonesia	2024
Patents and Property right	1. Virtual Reality(VR) Assisted Ethno-SSI Student Worksheet: Experiment	2025
	2. Socio-Scientific Inquiry Based on Blended Learning (SSIBBL): A Learning Model to Improve Students' Scientific Literacy	2025
	3. Integrated TPACK Science Teaching Module for Middle School	2024
	4. Debate Based on Inquiry Learning (DBOIL): Integration of Inquiry-Based Learning Models and Debates to Improve Students' Scientific Argumentation Skills	2024
	5. Improving Students' Scientific Argumentation Skills in Science Learning	2023
Important Publications over the last 5 years	1. Nurita, T., Fauziah, A. N. M., Mahdiannur, M. A., Susilowati, R., & **Hendratmoko, A. F.** (2025). Fostering Creative Thinking Skills in Creating Domain of Anderson's Taxonomy for Prospective Science Teachers Using E-Modul. *TEM Journal, 14*(3).	2025
	2. Laudia, S. M., Widodo, W., Sudibyo, E., **Hendratmoko, A. F.**, & Obra Jr, M. R. (2025). SSI-Based WebQuest: Instructional Media for Improving Critical Thinking Skills of Alpha Generation in Science. *Jurnal Inovasi Pendidikan IPA, 11*(1), 335-351.	2025
	3. **Hendratmoko, A. F.**, Puspitarini, S., Budiyanto, M., Rahman, N., Septaria, K., & Marpuah, S. (2025). Think-Aloud Protocol as a Method for Exploring and Understanding the Argumentation Skills of Pre-Service Science Teachers. *Prisma Sains: Jurnal Pengkajian Ilmu dan Pembelajaran Matematika dan IPA IKIP Mataram*, *13*(2), 268-282.	2025
	4. **Hendratmoko, A. F.**, Madlazim, M., Widodo, W., & Astutik, S. (2024). Debate Based on Inquiry Learning (DBOIL): An Innovative Learning Model to Improve	2024

	Students' Skills in Scientific Argumentation. *TEM Journal, 13*(4), 3295. 5. Fauziah, A. N. M**., Hendratmoko, A. F.**, Mahdiannur, M. A., Ermawan, M. Z. F., Suwandi, E., & Ratri, S. Y. (2024). Relationship Between Critical Thinking and Scientific Argumentation in Science Learning. *Jurnal Pendidikan IPA Indonesia, 13*(2). 6. **Hendratmoko, A. F.,** Madlazim, M., Widodo, W., Suyono, S., & Supardi, Z. A. I. (2024). Inquiry and Debate in Science Learning: Potential Strategy for Improving Students' Scientific Argumentation Skills. *International Journal of Education in Mathematics, Science and Technology, 12*(1), 114-138. 7. **Hendratmoko, A. F.**, Madlazım, M., Wıdodo, W., & Sanjaya, I. G. M. (2023). The Impact of Inquiry-Based Online Learning with Virtual Laboratories on Students' Scientific Argumentation Skills. *Turkish Online Journal of Distance Education, 24(*4), 1-20.	2024 2024 2023
Activities in specialist bodies over the last 5 years	Members of the Indonesian Science Educators Association	