

STAFF HANDBOOK



Name	Wahyu Budi Sabtiawan, S.Si.,M.Pd.,M.Sc.		
Position	Lecturer at Science Education, Universitas Negeri Surabaya (UNESA)		
Academic Career	Bachelor Degree (S1)	Chemistry, Universitas Negeri Surabaya	Graduated 2010
	Master Degree (S2)	Double-degree Program: ● Curtin University of Technology, Western Australia ● Science Education, Universitas Negeri Surabaya	Graduated 2014
	Doctoral Degree (S3)	Education Research and Evaluation	On going (Enrollment in 2024)
Employment	Lecturer	Universitas Negeri Surabaya	2015 - now
Research and Development Project over the last 5 years	1. Construction of a Performance-Oriented Alternative Assessment Prototype Design for Science Students 2. Study on the Nutritional Value, Glycemic Index, and Glycemic Load of Yacon Prebiotic Syrup to Support the Standardization of Premium Products 3. Development of Ethnoscience Learning Tools in Reconstructing and Explaining Indigenous Science for the Recognition of Local Wisdom and Sustainability 4. Analysis of Science Education Student Teachers' Competence in Developing Multiple-Choice Question Items 5. Implementation of the ISOCC Learning Model to Teach Information Literacy and Argumentation Skills Oriented towards Microlearning 6. Green Chemistry-Informed Learning Utilizing Biodiversity to Support the Implementation of the Merdeka Curriculum and Achieve a Green Economy 7. The Impact of Formative Assessment on Academic Achievement and Self-Regulation Skills in Science Education at the Junior High School Level 8. Student's Workload Mahasiswa FMIPA UNESA Selama Masa Pandemi: Profile dan Analisis		2025 2025 2024 2024 2023 2023 2023 2022 2022

	9. Development of Science Literacy Competency Assessment Instruments Based on Local Wisdom to Track Students' Understanding of Health Issues 10. Safety of Using Yacon Prebiotic Syrup as a Natural Supplement for Immune System Strength: In Vivo - Rattus Norvegicus 11. Analysis of Junior High School Students' Scientific Literacy Skills Related to the COVID-19 Pandemic	2021 2021
Industry Collaborations over the last 5 years	1. Assistance in Developing Authentic Assessment Instruments to Support Deep Learning for Science Teachers at MTs in Tuban Regency 2. Assessor for the Pre-Service Teacher Professional Education (PPG) Selection, Ministry of Education and Culture	2025 2024
Patents and Property right	Patents: Yacon Root Prebiotic Syrup (<i>Smallanthus sonchifolius</i>) and Its Production Process (Sirup Prebiotik Umbi Yacon (<i>Smallanthus sonchifolius</i>) dan Proses Pembuatannya: IDP000096533) Property right: 1. Laboratory Guide for the Solution Course (Panduan Praktikum Matakuliah Larutan: EC00202187194/000314652) 2. Science Literacy Competency Assessment Instrument Based on Local Wisdom to Track Students' Understanding of Health Issues (Instrumen Penilaian Kompetensi Literasi Sains Berbasis Kearifan Lokal Dalam Melacak Pemahaman Peserta Didik Terhadap Isu-isu Kesehatan: EC002022104769/000420513) 3. Argumentation Skills Assessment Instrument for Environmental Pollution Material (Instrumen Penilaian Keterampilan Argumentasi Pada Materi Pencemaran Lingkungan: EC00202361941/000494881) 4. Critical Thinking Skills Assessment Instrument for the Respiratory System Material (Instrumen Penilaian Kemampuan Berpikir Kritis Siswa Pada Materi Sistem Pernapasan: EC00202361948/000494888) 5. Rubric For Science Project (Rubrik Penilaian Berbasis Proyek) (EC00202460121/000635479) 6. Chemistry Teaching Material on Reaction Rate: The Effect of Concentration, Temperature, and Catalyst on Reaction Rate for High Cognitive Ability Levels (Bahan Ajar Kimia Memuat Materi Laju Reaksi: Faktor	2024 2021 2022 2023 2023 2024 2025

	Konsentrasi, Suhu, dan Katalis terhadap Laju Reaksi untuk Tingkat Kemampuan Kognitif Tinggi: EC002025143552) 7. Chemistry Teaching Material on Reaction Rate: The Effect of Concentration, Temperature, and Catalyst on Reaction Rate for High Cognitive Ability Levels (Bahan Ajar Kimia Memuat Materi Laju Reaksi: Faktor Konsentrasi, Suhu, dan Katalis terhadap Laju Reaksi untuk Tingkat Kemampuan Kognitif Tinggi: EC002025143563)	2025
Important Publications over the last 5 years	1. The Claims Statements from Viral Videos for Instrument Development to Assess Argumentation Thinking Skills; Vol. 1899 012174 Journal of Physics: Conference Series 2. Junior High School Student's Contagion Literacy: How far students understand Covid-19 Symptoms?; Vol.328 2021 E3S Web Conf. 3. Studi Kasus Penerapan Penilaian Pembelajaran IPA pada Masa Pandemi Covid-19 (Case Study of Implementation of Assessment in Science Learning during Covid-19 Pandemic); Vol.9 No.3 Pensa E-Jurnal: Pendidikan Sains 4. Penerapan Asesmen Pembelajaran Jarak Jauh Materi Kalor dan Perpindahannya secara Daring dan Luring di Kelas VII SMP Negeri 1 Sumberrejo (Implementation of Online and Offline Assessment for Long Distance Learning in Grade 7th Junior High School (SMP Negeri; Vol.9 No.2 Pensa E-Jurnal: Pendidikan Sains 5. Students' Perspectives: How do They want to be Assessed?; Vol.149 2022 SHS Web Conf. 6. Monitoring and Evaluation of Lectures During the Covid-19 Pandemic Period as a Part of Education Quality Assurance; Proceedings of the Unima International Conference on Social Sciences and Humanities (UNICSSH 2022)-Atlantis Press 7. Instrumen penilaian untuk mengukur keterampilan argumentasi pada materi pencemaran lingkungan; PENSA: E-JURNAL PENDIDIKAN SAINS 11 (2), 175-179 8. Analysis of information literacy and argumentation skills by a prospective science teacher; Reimagining Innovation in Education and Social Sciences, 373-379 9. ANALISIS KEMAMPUAN HIGHER ORDER THINKING SKILLS SISWA SMP PADA MATERI EKOSISTEM; BIOCHEPHY: Journal of Science Education 4 (2), 667-673 10. Profil Keterampilan Berpikir Tingkat Tinggi Siswa SMP Pada Materi Ekosistem; Jurnal Intelek Insan Cendikia 1 (7), 2893-2900 11. ANALISIS VALIDITAS ISI INSTRUMEN PENELITIAN DENGAN MENERAPKAN ASESMEN AWAL SEBELUM PEMBELAJARAN UNTUK MENINGKATKAN HASIL	2021 2021 2021 2021 2022 2022 2023 2023 2024 2024 2025

	BELAJAR PESERTA DIDIK; BIOCHEPHY: Journal of Science Education 5 (1), 140-146 12. An alternative assessment instrument for science teachers' ability in designing and implementing assessments; Multidisciplinary Science Journal 8(2), Published in 19 August 2025 13. Collaborative assessment in education: A systematic review of practices and impact in schools (2014–2024); Multidisciplinary Reviews (Accepted), Published in 08 September 2025	2026 2026
Activities in specialist bodies over the last 5 years	The Indonesian Science Educators Association Committee	2025-now