

Staff Handbook

Please fill out and submit one table per person.

Name	Kuswari Hernawati		
Post	Mathematics Education		
Academic career	Undergraduate degree (Mathematics)	Universitas Sebelas Maret	1999
	Master degree (Computer Science)	Universitas Gadjah Mada	2003
	Doctor Degree (Education Science)	Universitas Negeri Yogyakarta	2023
Employment	Lecturer	Universitas Negeri Yogyakarta	2005
Research and development projects over the last 5 years	1. Analisis Kesiapan Calon Guru Matematika dalam Pemanfaatan Media Pembelajaran Berbasis AI (<i>Analysis of Prospective Mathematics Teachers' Readiness in Utilizing AI-Based Learning Media</i>) Year: 2025, Amount of financing: IDR 18.000.000 2. Klasifikasi Jenis Paparan Teks menggunakan Jaringan Syaraf Tiruan (<i>Classification of Types of Text Exposure Using Artificial Neural Networks</i>), Year: 2022, Amount of financing: IDR 25.000.000 3. Pengembangan Bahan Ajar Berdiferensiasi Berbasis Teknologi: Evaluasi Efektivitas dalam Meningkatkan Prestasi Belajar Geometri Mahasiswa (<i>Development of Technology-Based Differentiated Teaching Materials: Evaluating Their Effectiveness in Improving Students' Geometry Learning Achievement</i>) Year: 2025, Amount of financing: IDR 24.000.000 4. Perancangan dan Implementasi Project-base mathematics mobile learning untuk meningkatkan Keterampilan Komunikasi Matematis dan Kemandirian Belajar Siswa, (Design and Implementation of Project-Based Mathematics Mobile Learning to Enhance Students' Mathematical Communication Skills and Learning Independence) Year: 2024 Funding: IDR 45,000,000) 5. Pengembangan Aplikasi Mobile untuk Perhitungan Rasio Keuangan Saham (Development of a Mobile Application for Stock Financial Ratio Analysis) Year: 2024 Funding: IDR 45,000,000 6. Pengembangan Perangkat Pembelajaran Mobile Matematika berbasis Proyek dengan Kerangka TPACK (Development of Project-Based Mobile Mathematics Learning Tools Using the		

	TPACK Framework) Year: 2022 Funding: IDR 15,000,000 7. Eksplorasi Prototipe Mobile Learning Pembelajaran Matematika SMP berbasis Cognitive Load Theory sesuai Kurikulum Merdeka (Exploration of a Mobile Learning Prototype for Junior High School Mathematics Based on Cognitive Load Theory Aligned with the Merdeka Curriculum) Year: 2023 Funding: IDR 45,000,000) 8. Dampak AI Generatif dalam Pembelajaran Matematika: Tinjauan Sistematis terhadap Pemahaman Konsep dan Keterampilan Matematis (The Impact of Generative AI in Mathematics Learning: A Systematic Review of Conceptual Understanding and Skill Development) Year: 2025 Funding: IDR 45.000.000
Industry collaborations over the last 5 years	1. Pelatihan Pengembangan Video Pembelajaran Bagi Guru Untuk Meningkatkan Pemahaman Cybergogy dalam Pembelajaran di Sekolah <i>(Training on Developing Learning Videos for Teachers to Enhance Understanding of Cybergogy in Education at the Mathematics)</i>, 2022 Partner: MGMP Sleman 2. Pelatihan Pengembangan Video Pembelajaran Dan Kuis Interaktif Berbantuan Software Lumi <i>(Training on the Development of Instructional Videos and Interactive Quizzes Using Lumi Software)</i> Partner: MGMP Matematika Sleman 2023 3. Workshop Pengembangan Media Pembelajaran Matematika Interaktif Menggunakan Lumi Bagi Mgmp Matematika SMK Kabupaten Gunung Kidul <i>(Workshop on Developing Interactive Mathematics Learning Media Using Lumi for the Mathematics Teacher Working Group (MGMP) of SMK in Gunungkidul Regency)</i> Partner: MGMP Matematika SMK Kab Gunungkidul, 2024 4. Pemanfaatan Geogebra Classroom sebagai Inovasi Pembelajaran Matematika <i>(Utilizing GeoGebra Classroom as an Innovation in Mathematics Learning)</i> Partner: LP Yayasan Ma'arif NU PWNUI DIY, 2024
Patents and proprietary rights	1. MOLGE (Program Komputer), 2023, No. 000545475 2. LKPD Kaidah Pencacahan mengembangkan Kemampuan komunikasi matematis dan kemandirian belajar berbasis Proyek, 2024, No. EC002024221981 3. Analisis Data Statistik menggunakan JASP, 2024, No. EC002024260791
Important publications over the last 5 years	1. Author(s): Kuswari Hernawati, Herman Dwi Surjono Title: Improving trigonometry learning motivation using Geogebra-Assisted Guided Discovery Student Worksheet (GDSW) Publisher: Journal of Physics: Conference Series, issue : 1, vol: 1320 2019, ISSN: 1742-6596. https://iopscience.iop.org/article/10.1088/1742-6596/1320/1/012082

	2. Author(s): Kuswari Hernawati, Marsigit, Moch. Bruri Triyono <i>Digital pedagogy in mathematics mobile learning</i> <i>International Journal of Innovation, Creativity and Change</i>, issue : 11, vol: 12, 2020, ISSN: 2201-1323 https://www.ijicc.net/images/vol12/iss11/121113_Hernawati_2020_E_R.pdf 3. Author : Kuswari Hernawati <i>Improvement of Mathematical Critical Thinking Skills through</i> <i>Project-Based Mathematics Mobile Learning Implementation with</i> <i>TPACK Framework</i> <i>Proceedings of The 8th International Conference on Education</i> <i>Innovation (ICEI 2024)</i>, Atlantis Press, ISSN: 2352-5398 DOI 10.2991/978-2-38476-360-3_117 https://www.atlantis-press.com/proceedings/icei-24/126009591		
Activities in specialist bodies over the last 5 years	<i>Phytagoras Journal</i> <i>Jurnal Pedagogi Matematika</i> <i>Mathematics Education</i> <i>Review Journal</i>	<i>Editor</i> <i>Chief Editor</i> <i>Editor</i>	<i>August-December</i> <i>2023</i> <i>2024</i> <i>2024</i>