

Staff Handbook

Please fill out and submit one table per person.

Name	<i>Dr. Karyati, S.Si, M.Si</i>		
Post	<i>Mathematics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Habilitation [German post-doctoral qualification] (subject)</i>	-	-
	<i>Doctorate</i>	<i>-Gadjah Mada University</i>	<i>2015</i>
	<i>Master degree (Mathematics)</i>	<i>Gadjah Mada University</i>	<i>2003</i>
	<i>Undergraduate degree (Mathematics)</i>	<i>Sebelas Maret University</i>	<i>1996</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Assistant Professor</i>	<i>Universitas Negeri Yogyakarta</i>	<i>2019-now</i>
Research and development projects over the last 5 years	1. <i>Application of Cycle-Merging Technique from the Prefer Complement Algorithm on a Modified de Bruijn Graph, 2025, (Musthofa, Agus Maman Abadi, Karyati, Lusi Harini), Rp 24.000.000</i>		
	2. <i>Pointwise Contraction Mapping in a Generalized Modular Metric Space, 2024, (Lusi Harini, Agus Maman Abadi, Karyati), Rp 18.000.000</i>		
	3. <i>Development of a Fixed Point Theorem for Set-Valued Mappings in b-Modular Metric Spaces and Its Application to Differential Equation Systems, 2024, (Hartono, Lusi Harini, Afifah Hayati, Syamsuddin Mas'ud, Karyati, Thesa Adi Saputra Yusri, Fitriana Yuli Saptaningtyas),Rp 124.830.000</i>		
	4. <i>Penyelesaian Masalah Pemrograman Linear Bilangan Trapezium Tergeneralisir dan Analisis Pasca Optimum, 2023 (Karyati, M. Fauzan, Dhoriva Urwatul Wutsqa) Rp. 40.000.000</i>		
	5. <i>Analisis Prestasi Belajar Matematika Siswa Dari Data PISA 2022 menggunakan Model Recurrent Neural Network. 2024 (Dhoriva Urwatul Wutsqa, Indira Ihnu Brilliant, Karyati) Rp. 45.000.000</i>		
	6. <i>ANALISIS SENSITIVITAS PENYELESAIAN OPTIMUM MASALAH PEMROGRAMAN LINEAR BILANGAN FUZZY TRAPESIUM TERGENERALISIR. 2021 (Karyati, Emut, Agus Maman Abadi)Rp.18.000.000</i>		

	7. Analisis Faktor-faktor Kesulitan Belajar Mahasiswa Pada Perkuliahan Aljabar Linear (Emut, Karyati, Agus Maman Abadi)		
Industry collaborations over the last 5 years	Project title Partners		
Patents and proprietary rights	Title	Year	
Important publications over the last 5 years	1. CORE learning model (connecting, organizing, reflecting & extending) to improve mathematical representation ability. 2022. (Tedi Dewanto, Karyati, Emut, Agus Maman Abadi). AIP Conference Proceedings 2575, 020003 (2022), https://doi.org/10.1063/5.0111269		
	2. Generalization of “DKN Fuzzy Simpleks” application program. (S. Rosyid, Karyati, Emut, Agus Maman Abadi). AIP Conference Proceedings 2575, 020003 (2022), https://doi.org/10.1063/5.0111232		
	3. CORE learning model (connecting, organizing, reflecting & extending) to improve mathematical representation ability.2022. (Eka Pupita Sari, Karyati). AIP Conference Proceedings 2575, 020003 (2022), https://doi.org/10.1063/5.0110217		
	4. The Properties Of Magnitude Ranking Function Of Trapezoidal Fuzzy Numbers. 2020. (Karyati, Dhoriv uw, N. Binatari). https://iopscience.iop.org/Article/10.1088/1742-6596/1581/1/012015/Pdf . Journal Of Physics: Conference Series 1581 (2020) Doi:10.1088/1742-6596/1581/1/012015		
	5. Aplikasi Dekomposisi Nilai Singular dan Transformasi Kosinus Diskrit untuk Perbaikan Kualitas Citra Satelit Landsat. 2021 . (Yori Kurniasari, Karyati). https://journal.uny.ac.id/index.php/jsd/article/view/39571/pdf . Jurnal Sains Dasar Vol 10, No 1 (2021): April 2021		
	6. Penyelesaian Masalah Transportasi Fuzzy dengan Metode Pendekatan Monalisha pada Distribusi Air Perusahaan Daerah Air Minum (PDAM) Tirtamarta. (Agung Budi, W, Karyati). https://journal.uny.ac.id/index.php/jsd/article/view/41805/pdf Jurnal Sains DasarVol 10, No 2 (2021): October 2021		
	7. Aplikasi Dekomposisi Nilai Singular Matriks Quaternion Terhadap Perbaikan Citra Low Dan High Pass Filtering.2022. (Regina Agustin WF , Karyati) https://journal.uny.ac.id/index.php/jsd/article/view/41951/pdf Vol 11, No 1 (2022): April 2022		
	Organisation	Role	Period

Activities in specialist bodies over the last 5 years	<i>IndoMS</i>	<i>Member</i>	<i>2003-now</i>
	<i>(The Indonesian Mathematical Society)</i>		
	<i>KPA</i>	<i>Member</i>	<i>1999-Now</i>
	<i>(Komunitas Peminat Aljabar/ Indonesian Algebra Society)</i>		