

Staff Handbook

Please fill out and submit one table per person.

Name	Prof. Dr. Hartono		
Post	Mathematics		
Academic career	Undergraduate Degree	Universitas Gadjah Mada (UGM)	1986
	Master Degree	Institut Teknologi Bandung	1994
	Doctoral Degree	Delft University of Technology, The Netherlands	2004
Employment	Position: Lecturer	Employer: UNY	Period: 1987-Now
Research and development projects over the last 5 years	Analisa Bifurkasi Hopf pada Model Penyebaran Penyakit Pneumonia dengan Delay Buatan (Hopf Bifurcation Analysis of Pneumonia Disease Spread Model with Delay) Year: 2025 Partners: Hartono, Fitriana Yuli Saptaningtyas, Dwi Lestari Amount of financing: Rp. 55.000.000,- Model Predator Prey interaksi Nyamuk Aedes aegypti dan nyamuk Wolbachia pada penyebaran penyakit DBD Year : 2025 Partners : Fitriana Yuli Saptaningtyas, S.Pd, M.Si, Fithri Annisatun Lathifah, S.Si., M.Si., Ikha Puspita Parwitasari, S.Si., M.Sc. Amount of financing : Rp. Rp. 24.000.000,00 Pengembangan Teorema Titik Tetap untuk Pemetaan Bernilai Himpunan pada Ruang Metrik-b Modular dan Aplikasinya pada Sistem Persamaan Diferensial Year : 2024 Partners : Dr. Karyati, S.Si., M.Si., Fitriana Yuli Saptaningtyas, S.Pd, M.Si., Lusi Harini, S.Si., M.Sc., Thesa Adi Saputra Yusri, M.Cs. Amount of financing : Rp. 124.830.000,00 Pengembangan Desain Visual Experiential Learning (VEL) berbantuan GeoGebra pada Materi Bangun Ruang Sisi Datar untuk Meningkatkan Penalaran Analogi Siswa SMP Year : 2024 Partners : Prof. Dr. Jailani, M.Pd. Amount of financing : Rp. 36.000.000,00		
Industry collaborations over the last 5 years	Pelatihan Eksploratif Geogebra untuk meningkatkan pemahaman matematika perguruan tinggi : Analisis dan Matematika Terapan		

	(Explorative Geogebra training to improve understanding of college mathematics: Analysis and Applied Mathematics) Year : 2025 Partners : Hartono, Dwi Lestari, Ikha Puspita Parwitasari, Fithri Annisatun Lathifah Amount of financing : Rp. 35.000.000 Industry collaborations : Program Studi Matematika FST UIN Sunan Kalijaga Yogyakarta 2. Workshop Penyusunan Modul Ajar Matematika SMP Berbasis Higher-Order Thinking Skills (HOTS) Year : 2025 Partners : Rofi Amiyani, M.Pd., Fitriana Yuli Saptaningtyas, S.Pd, M.Si., Ikha Puspita Parwitasari, S.Si., M.Sc., Fithri Annisatun Lathifah, S.Si., M.Si. Amount of financing : Rp. 10.000.000,00 Industry Collaborations : SMP N 4 Pakem 3. Workshop pembuatan media pembelajaran matematika SMP berbasis Canva Year : 2024 Partners : Lusi Harini, S.Si., M.Sc., Dr. Karyati, S.Si., M.Si., Prof. Dr. Agus Maman Abadi, M.Si., Fitriana Yuli Saptaningtyas, S.Pd, M.Si. Amount of financing : Rp. 10.000.000,00 Industry of Collaboratons : MGMP Matematika SMP Kawedanan Gondang Winangun, Kabupaten Klaten 4. Workshop Penyusunan Modul Ajar Matematika SMA pada Model Pembelajaran Berdiferensiasi Year : 2023 Partners : Prof. Dr. Drs. Sugiman, M.Si., Himmawati Puji Lestari, Prof. Dr. Ariyadi Wijaya, S.Pd.Si., M.Sc. Amount of financing : Rp. 6.000.000,00 Industry of Collaboratons : SMAN 1 BANTUL
Patents and proprietary right	Patents (HaKI/HKI) Year

Important publications over the last 5 years	International Journal Publications (Scopus/WoS Indexed) Hartono, Binatari, N., Saptaningtyas, F. Y., & Emut. (2024). Limit Cycle on the Forced Vibrations Oscillator with a Time-Varying Mass. <i>International Journal of Differential Equations</i>, 2024(1). https://doi.org/10.1155/2024/1043710 International Conference Proceedings (Scopus Indexed) Hartono, Krisnawan, K. P., Arifah, H., & Saptaningtyas, F. Y. (2024). Determining the location of limit cycle on weakly nonlinear van der Pol equation. In <i>AIP Conference Proceedings (Vol. 3081, p. 100001). FRONTIERS IN INDUSTRIAL AND APPLIED MATHEMATICS: FIAM2022.</i> AIP Publishing. https://doi.org/10.1063/5.0133302 Utami, T. N., & Hartono. (2022). Mobile game as a media learning mathematics in the Covid-19 pandemic. In <i>AIP Conference Proceedings (Vol. 2575, p. 080023). PROCEEDINGS OF THE 4TH INTERNATIONAL SEMINAR ON INNOVATION IN MATHEMATICS AND MATHEMATICS EDUCATION (ISIMMED) 2020: Rethinking the role of statistics, mathematics and mathematics education in society 5.0: Theory, research, and practice.</i> AIP Publishing. https://doi.org/10.1063/5.0109548 Yuliani, P. A., & Hartono. (2022). Formative assessment on the flipped classroom model in the mathematics learning. In <i>AIP Conference Proceedings (Vol. 2575, p. 040022). PROCEEDINGS OF THE 4TH INTERNATIONAL SEMINAR ON INNOVATION IN MATHEMATICS AND MATHEMATICS EDUCATION (ISIMMED) 2020: Rethinking the role of statistics, mathematics and mathematics education in society 5.0: Theory, research, and practice.</i> AIP Publishing. https://doi.org/10.1063/5.0108392 Setyawan, L., & Hartono. (2022). Bifurcation analysis on predator-prey Leslie-Gower model holling respond function type II with harvesting on predator and prey population. In <i>AIP Conference Proceedings (Vol. 2575, p. 060002). PROCEEDINGS OF THE 4TH INTERNATIONAL SEMINAR ON INNOVATION IN MATHEMATICS AND MATHEMATICS EDUCATION (ISIMMED) 2020: Rethinking the role of statistics, mathematics and mathematics education in society 5.0: Theory, research, and practice.</i> AIP Publishing. https://doi.org/10.1063/5.0107949 Nuryadi, A., & Hartono. (2021). Solution plan as a strategy to support students in modeling mathematics. <i>Journal of Physics: Conference Series</i>, 1806(1), 012117. https://doi.org/10.1088/1742-6596/1806/1/012117
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7. **Hartono, Abadi, A. M., & Saptaningtyas, F. Y. (2021).** *Modify Multistep Difference Transform Method for Solving Jamming Model in Lorentz System.* In *Advances in Social Science, Education and Humanities Research. 7th International Conference on Research, Implementation, and Education of Mathematics and Sciences (ICRIEMS 2020).* Atlantis Press. <https://doi.org/10.2991/assehr.k.210305.048>
8. **Hartono, Krisnawan, K. P., & Arifah, H. (2022).** *Analysis of an elastic beam vibration model.* In *AIP Conference Proceedings (Vol. 2575, p. 060005).* PROCEEDINGS OF THE 4TH INTERNATIONAL SEMINAR ON INNOVATION IN MATHEMATICS AND MATHEMATICS EDUCATION (ISIMMED) 2020: Rethinking the role of statistics, mathematics and mathematics education in society 5.0: Theory, research, and practice. AIP Publishing. <https://doi.org/10.1063/5.0107773>

Additional Publications

9. **Wulandari, S., Hartono, H., & Setyaningrum, W. (2024).** *PENGEMBANGAN MEDIA WHITEBOARD ANIMATION BERBASIS PENDEKATAN SAINTIFIK UNTUK MEMFASILITASI PENINGKATAN KEMANDIRIAN BELAJAR.* AKSIOMA: Jurnal Program Studi Pendidikan Matematika, 13(1), 353. <https://doi.org/10.24127/ajpm.v13i1.8955>
10. **Suharman, R. A., & Hartono, H. (2022).** *Klasifikasi Kematangan Manggis Berdasarkan Fitur Warna dan Tekstur Menggunakan Algoritma Naive Bayes.* PYTHAGORAS Jurnal Pendidikan Matematika, 17(2). <https://doi.org/10.21831/pythagoras.v17i2.53625>
11. **Lestari, H. P., Hartono, H., Binatari, N., Emut, E., Saptaningtyas, F. Y., & Krisnawan, K. P. (2020).** *Peningkatan Profesionalisme Guru Matematika SMK Se-Gunungkidul Melalui Workshop Pemodelan Matematika.* Jurnal Pengabdian Masyarakat MIPA Dan Pendidikan MIPA, 4(1), 66–70. <https://doi.org/10.21831/jpmmp.v4i1.34079>

Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>