



# UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Department of Mathematics

Sekip Utara Bulaksumur Yogyakarta 55281 Telp: +62 274 552243 Fax: +62 274 555131 Email: [math@ugm.ac.id](mailto:math@ugm.ac.id) Website: <http://math.fmipa.ugm.ac.id>

## STAFF HANDBOOK

Name	<i>Aluysiyus Sutjijana</i>												
Post	<i>Algebra, Coding, and Combinatorics</i>												
Academic career	<table><thead><tr><th><i>Initial academic appointment</i></th><th><i>Institution</i></th><th><i>Year</i></th></tr></thead><tbody><tr><td><i>Doctorate (Math)</i></td><td><i>UGM</i></td><td><i>2015</i></td></tr><tr><td><i>Master of Science (Math)</i></td><td><i>SFU Canada</i></td><td><i>1991</i></td></tr><tr><td><i>Undergraduate degree (Math)</i></td><td><i>UGM</i></td><td><i>1986</i></td></tr></tbody></table>	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>	<i>Doctorate (Math)</i>	<i>UGM</i>	<i>2015</i>	<i>Master of Science (Math)</i>	<i>SFU Canada</i>	<i>1991</i>	<i>Undergraduate degree (Math)</i>	<i>UGM</i>	<i>1986</i>
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Research and development projects over the last 5 years	<p>1. A new <math>(k, n)</math>-threshold scheme based on trivariate symmetric polynomials with cheater identification capability, April – Oktober 2021, Amount of financing Rp. 15.000.000,00.</p> <p>2. On cyclic self-orthogonal codes over <math>Z_{2m}</math>, April – November 2020, Amount of financing Rp. 15.000.000,00.</p> <p>3. Antiadjacency Matrices for Some Strong Products of Graphs, May- October 2019, Amount of financing Rp. 15.000.000,00.</p>												
Industry collaborations over the last 5 years	<p><i>Project title-----</i></p> <p><i>Partners -----</i></p>												
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Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx.</i></p> <ol style="list-style-type: none"><li><i>Al. Sutjijana; Dea Alvionita Azka, Antiadjacency Matrices for Some Strong Products of Graphs, Journal of Fundamental Mathematics and Applications (JFMA), 2023, 6(1), 27-36.</i></li><li><i>Dea Alvionita Azka, Diah Junia Eksi Palupi, Al Sutjijana Dimensi Metrik Lokal dari Hasil Perkalian Kuat Graf Bintang, Jurnal Fourier, Faculty of Science and Technology UIN Sunan Kalijaga, Oktober 2022, Vol. 11, No. 2, 49-58.</i></li><li><i>Yeni Susanti, Sri Wahyuni, Aluysius Sutjijana, Sutopo Sutopo and Iwan Emanto, Generalized Arithmetic Staircase Graphs and Their Total Edge Irregularity Strengths, Symmetry 2022, 14, 1853.</i></li></ol>												



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4. *Yeni Susanti, S.Si., M.Si., Dr.rer.nat ; Iwan Ernanto S.Si., M.Sc. ; Dr. Aluysius Sutjijana, M.Sc., SUFYAN SIDIQ., Some Cartesian Products of a Path and Prism Related Graphs that are Edge Odd Graceful, Journal of Fundamental Mathematics and Applications (JFMA), 2021, 4(2), 213-227.*
5. *Ari Dwi Hartanto, S.Si., M.Sc. ; Dr. Aluysius Sutjijana, M.Sc., Binary Cyclic Pearson Codes, Jurnal Matematika MANTIK Department of Mathematics, Faculty of Science and Technology, Universitas Islam Negeri Sunan Ampel Surabaya, 2021, 7(1), 1-8.*
6. *Ari Dwi Hartanto, S.Si., M.Sc. ; Dr. Aluysius Sutjijana, M.Sc., A Secret Sharing Scheme Based on Multivariate Polynomials, Journal of Fundamental Mathematics and Applications (JFMA), 2019, 2(20), 81-92*