



**UNIVERSITAS INDONESIA**

Faculty of Mathematics and Natural Sciences

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**STAFF HANDBOOK**

<b>Name</b>	<b>Siti Aminah</b>		
<b>Expertise</b>	<b>Graph Matrix Theory, Computational Mathematics</b>		
<b>Academic career</b>		<b>Institution</b>	<b>Year</b>
	Undergraduate degree	Universitas Indonesia	1988
	Master degree	Universitas Indonesia	2000
	Doctoral degree	-	
	Post-doctoral	-	
<b>Employment</b>	<b>Position</b>	<b>Employer</b>	<b>Period</b>
	Lecturer	UI	1990– 2002
	Assistant professor	UI	2002 – now
<b>Research and development projects over the last 5 years</b>	<ol style="list-style-type: none"> <li>1. Riset PITTA, “Characteristic Polynomial and Eigenvalues of Antiadjacency Matrices of Several Directed Cyclic Graphs”, Period 2018, Partner Suarsih Utama, Amount of financing Rp. 81.000.000,-</li> <li>2. Riset PITTA B, “Characteristic Polynomial and Eigenvalues of Matrix Representation of Graph”, Period 2019, Partner Denny Riama Silaban, Amount of financing Rp. 90.000.000,-</li> <li>3. Riset PUTI Prosiding “Characteristic Polynomials of Antiadjacency Matrices of Several Classes of Directed Unicyclic Graphs”, Period 2020, Partner Kiki Ariyanti Sugeng, Amount of financing Rp. 23.000.000,-</li> <li>4. Riset FMIPA UI “Classification of Coronavirus Protein Sequences Cause Covid-19 using Machine Learning Approach”, Period 2021, Partner Gianinna Ardaneswari, Amount of financing Rp. 34.000.000,-</li> </ol>		
<b>Industry collaborations over the last 5 years</b>	-		
<b>Patents and proprietary rights</b>	-		

<p><b>Important publications over the last 5 years</b></p>	<p style="text-align: center;"><b>Selected recent publications</b></p> <ol style="list-style-type: none"> <li>1. I.P. Dewi, S. Utama, <b>S. Aminah</b>: Deriving the explicit formula of Chebyshev polynomial of the third kind and the fourth kind, AIP Conference Proceedings 2023, 020202, 2018.</li> <li>2. S. Budiyanto, S. Utama, <b>S. Aminah</b>: Eigenvalues of Antiadjacency Matrix of Directed Cyclic Dumbbell Graph, J. Phys.: Conf. Ser. 1108 012015, 2018.</li> <li>3. L. Widiastuti, S. Utama, <b>S. Aminah</b>: Characteristic Polynomial of Antiadjacency Matrix of Directed Cyclic Wheel Graph <math>W_n</math>, J. Phys.: Conf. Ser. 1108 012009, 2018.</li> <li>4. L. Widiastuti, S. Utama, <b>S. Aminah</b>: The Adjacency Matrix of Directed Cyclic Wheel Graph (<math>W_n</math>), J. Phys.: Conf. Ser. 1211 012002, 2019.</li> <li>5. M.I.A. Prayitno, S. Utama, <b>S. Aminah</b>: Properties of Anti-Adjacency Matrix of Directed Cyclic Sun Graph, IOP Conf. Ser.: Mater. Sci. Eng. 567 012020, 2019.</li> <li>6. R. Stin, <b>S. Aminah</b>, S. Utama: Characteristic Polynomial and Eigenvalues of the Anti-Adjacency Matrix of Cyclic Directed Prism Graph, AIP Conference Proceedings 2168, 020052, 2019.</li> <li>7. M.I.A. Prayitno, S. Utama, <b>S. Aminah</b>, D.R. Silaban: Properties of Adjacency, In-Degree Laplacian, and Out-Degree Laplacian Matrices of Directed Cyclic Sun Graph, AIP Conference Proceedings 2192, 040011, 2019.</li> <li>8. R. Stin, <b>S. Aminah</b>, S. Utama, D.R. Silaban: Characteristic polynomials and eigenvalues of the adjacency matrix and the Laplacian matrix of cyclic directed prism graph, AIP Conference Proceedings 2242, 030028, 2020.</li> <li>9. N. Anzana, <b>S. Aminah</b>, S. Utama, D.R. Silaban: Characteristic polynomial of antiadjacency matrix of directed cyclic friendship graph, JOP Conference Series 1538, 012007, 2020.</li> <li>10. S. Budiyanto, S. Utama, <b>S. Aminah</b>, D.R. Silaban: Characteristic polynomial and eigenvalues of antiadjacency matrix of directed cyclic dumbbell graph with cycles of different sizes, AIP Conference Proceedings 2268, 040001, 2020.</li> <li>11. N. Hasyiyati, K.A. Sugeng, <b>S. Aminah</b>: Characteristic polynomial and eigenvalues of anti-adjacency matrix of directed unicyclic corona graph, Journal of Physics: Conference Series 1836(1), 012001, 2021.</li> <li>12. Q. Qomaruzzaman, <b>S. Aminah</b>, K.A. Sugeng: Properties of characteristic polynomial and eigenvalues of antiadjacency matrix of directed unicyclic tadpole graph, Journal of Physics: Conference Series, 1836(1), 012002, 2021.</li> <li>13. N. Anzana, <b>S. Aminah</b>, S. Utama: Properties of adjacency matrix of the directed cyclic friendship graph, AIP Conference Proceedings, 2329, 020002, 2021.</li> <li>14. E.N. Manurung, Y. Widiyaningsih, <b>S. Aminah</b>: Linear regression model as an approach to analyze spatio temporal data to know the influence factors of the number of crimes in North Sumatera, Journal of Physics: Conference Series, 1725(1), 012029, 2021.</li> <li>15. R.P. Okfradifa, <b>S. Aminah</b>, K.A. Sugeng: Properties of characteristic polynomial and eigenvalues of antiadjacency matrix of directed unicyclic helm graph, Journal of Physics: Conference Series, 1722(1), 012056, 2021.</li> </ol>
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	16. B.H. Aji, K.A. Sugeng, <b>S. Aminah</b> : Characteristic polynomial and eigenvalues of antiadjacency matrix of directed unicyclic flower vase graph, Journal of Physics: Conference Series, 1722(1), 012055, , 2021.		
<b>Scholar UI ID</b>	<a href="https://scholar.ui.ac.id/en/persons/siti-aminah">https://scholar.ui.ac.id/en/persons/siti-aminah</a>		
<b>Activities in specialist bodies over the last 5 years</b>	<b>Organization</b>	<b>Role</b>	<b>Period</b>
	Indonesian Mathematical Society (IndoMS)	Member	2016- now