

# Staff Handbook

Please fill out and submit one table per person.

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |      |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------|
| Name                                                    | Thesa Adi Saputra Yusri, S.Mat., M.Cs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |      |
| Post                                                    | Data Mining, Machine Learning, Cryptography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |      |
| Academic career                                         | Master Degree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Universitas Gadjah Mada       | 2019 |
|                                                         | Undergraduate degree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Universitas Halu Oleo         | 2016 |
| Employment                                              | Tenaga Pengajar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Universitas Negeri Yogyakarta | 2021 |
|                                                         | Assistant Professor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Universitas Negeri Yogyakarta | 2023 |
| Research and development projects over the last 5 years | <ol style="list-style-type: none"> <li>1. 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</li> <li>2. Prediction of the Composite Stock Price Index Using LSTM Algorithm Based on Historical Data and Technical Analysis, 2023, (Agus Maman Abadi, Thesa Adi Saputra Yusri, Lusi Harini), Rp 36.000.000</li> <li>3. Klasifikasi Jenis Paparan Teks menggunakan Jaringan Syaraf Tiruan (Classification of Text Exposure Types using Artificial Neural Networks), 2022, (Sri Andayani, Bambang Sumarno Nur Hadi Waryanto, Thesa Adi Saputra Yusri), Rp. 24.000.000,-</li> </ol> |                               |      |
| Industry collaborations over the last 5 years           | Project title<br>Partners                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                               |      |
| Patents and proprietary rights                          | Title<br>Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |      |
| Important publications over the last 5 years            | Selected recent publications from a total of approx.<br>(give total number): 2<br><hr/> Author(s)<br>Andayani, S.; Retnani, N.; Yusri, T.A.S.; Marwoto, B.S.H.<br>Title<br>A Comparative Analysis of DBSCAN and Gaussian Mixture Model for Clustering Indonesian Provinces Based on Socioeconomic Welfare Indicators<br>Any other information<br>Article • Open Access<br>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers<br>Barekeng, 2025, 19(3), pp. 2039–2056                                                                                                                                                                                                                                                                                                 |                               |      |

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|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|
|                                                       | <p><i>Author(s)</i><br/> <i>Yusri, T.A.S.; Putri, V.S.; Marwoto, B.S.H.; Harini, L.; Rudhistiar, D.</i></p> <p><i>Title</i><br/> <i>Enhancing Image Security through Modified RC4 Algorithm and Chaotic Map-Based Encryption</i></p> <p><i>Any other information</i><br/> <i>Article • Open Access</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i><br/> <i>IAENG International Journal of Applied Mathematics, 2025, 55(5), pp. 1186–1193</i></p> |             |               |
| Activities in specialist bodies over the last 5 years | <i>Organisation</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <i>Role</i> | <i>Period</i> |
|                                                       | <i>Membership without a specific role need not be mentioned</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |               |