**Bachelor of Education in Science STAFF HANDBOOK**

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| Name | Yessi Affriyenni, S.Pd, M.Sc | | | |
| Post | **STEM, Ethnoscience, and Assessment in Science Learning** | | | |
| Academic Career | S1 | Physics Education, Universitas Negeri Malang | | Graduated 2014 |
| S2 | Physics, Universitas Gadjah Mada | | Graduated 2017 |
| S3 | **-** | | **-** |
| Employment | Lecturer | Universitas Negeri Malang | | 2018-now |
| Research and development project over the last 5 year | 1. Development of Mobile Application Media “Physics 101” to Improve Conceptual Understanding in Calculus for Physics 1 Course. 2. Development of E-Learning Supporting Mobile Application Based on the Nature of Science (NOS) Perspective for Fundamental Physics 1 Course 3. Development of Augmented-Reality Based Formative Assessment for Wave and Optics Course | | | 1. 2019 2. 2019 3. 2020 |
| Industry collaborations over the last 5 year | Workshop of Augmented Reality Based Mobile Application Use in the Formative Assessment for Science Teachers Community in Tulungagung Regency | | | 2020 |
| Patents and propriety right | No | Title of HAKI | Year | No. P/ID |
| 1 | STEM-Based Learning Model for Physics Learning | 2019 | EC00201950927/August 12th, 2019-000150524 |
| 2 | Nucleon-Fundamental Physics I | 2019 | EC00201981312/ November 11th, 2019-000163787 |
| 3 | Gelop – Optical Geometry: Formative Assessmen Application Assisted with Augmented Reality Integrated in SIPEJAR for Wave and Optics Course | 2020 | EC00303037628/October 5th, 2020-000206331 |
| 4 | TPA (Childcare Center) Melati UM | 2020 | EC00202029576/Agustus 27th, 2020-000200166 |
| Important publicati ons over the last 5 year | 1. Development of Physics Learning Media on Optical Geometry Learning Material Based on Augmented Reality using Unity and Vuforia (https://doi.org/10.31331/jipva.v4i2.1301) 2. Conceptual Understanding and Problem-Solving Skills: The Impact of Hybrid Learning on Mechanics (http://dx.doi.org/10.29100/eduproxima.v2i2.1626) 3. Implementation of super-resolution imaging for small object tracking (https://doi.org/10.1063/5.0008420) 4. The effect of hybrid-learning on students’ conceptual understanding of electricity in short-term fundamental physics course (https://doi.org/10.1063/5.0000508) 5. Measurement of Thermal Expansion Coefficient on Electric Cable using X-Ray Digital Microradiography (https://doi.org/10.1109/EECSI.2018.8752736) 6. Moving Object Tracking using Hybrid Method (https://doi.org/10.1109/ICOIACT.2018.8350740) | | | 2020  2020  2020  2020  2018  2018 |
| Activities in specialist bodies over the last 5 year | Indonesian Science Educators Association | | Member | 2020 |