

# Dr. Titin Sunarti, M.Si.

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| **Position** | ***Wave and Optisc, entrepreneurship, Assessment of Learning Lecturer in Physics Education Study Program*** | | |
| | **Assistant Professor in Wave and optics** | | |
| | ***Degree*** | ***University*** | ***Year*** |
| **Academic career** | **Bachelor** at Physics Education | IKIP Negeri Surabaya - Indonesia | 1982-1986 |
| | **Master** of Physics | Universitas Gajah Mada - Indonesia | 1992-1995 |
| | **Doctor of Science** Education | Universitas Negeri Surabaya | 2012-2018 |
| **Employment** | ***Position*** | ***Employer*** | ***Period*** |
| | Lecturer on Physics Education Study Program | Universitas Negeri Surabaya - Indonesia | 1987- Now |
| | Secretary of the Physics Department | Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya - Indonesia | 2004-2012 |
| | Hesd of Physics Study Program | Physics Department Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya - Indonesia | 2004-2012 |
| | UPM Prodi S2 Pendidikan Sains | Pascasarjana Universitas Negeri Surabaya | 2019-Now |
| **Research and development projects over the last 5 years** | | | |
| | **2014:** Peningkatan Kualitas Hasil Pembelajaran (*Learning Out Comes* ) Mahasiswa Program Pendidikan Fmipa Unesa Melalui Penyesuaian Jenjang Kualifikasi Program Kerangka Kualifikasi Nasional Indonesia (KKNI)-IDR 43.000.000 (research chair)<br><br>**2015:** Pengembangan Media Ipa Dan Perangkat Pembelajarannya Untuk Melatih Keterampilan Inkuiri Siswa SD-SMP Satu Atap (Tahun ke 1 – IDR 50.000.000 (research chair)<br><br>**2016:** Pengembangan Media Ipa Dan Perangkat Pembelajarannya Untuk Melatih Keterampilan Inkuiri Siswa SD-SMP Satu Atap (Tahun ke 2- IDR 55.000.000<br><br>**2017:** Uji Coba Model *Scientific Literacy Base Learning* (Slbl) untuk Membekali Kompetensi Literasi Sains Mahasiswa Calon Guru Fisika (Hibah Doktor)- IDR 50.000.000 (research chair)<br><br>**2018:** Membekali Keterampilan ecopreneurship mahasiswa dengan menerapkan pembelajaran yang mengintegrasikan literasi lingkungan pada matakuliah fisika Dasar- IDR. 10.000.000 (research chair) | | |

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| | **2019:** Pemetaan dan Evaluasi Laboratorium Fisika SMA di Jawa Timur dalam upaya Pencapaian Kompetensi Dasar (KD) Keterampilan Kurikulum 2013 melalui "Photovoice" IDR 250.000.000 (research member)<br><br>**2019**: ldentifikasi Miskonsepsi Mahasiswa Baru Program Studi Pendidikan Fisika Tahu n 2019/2020 - IDR 10,000,000 (research member)<br><br>**2019**. Analisis Konsepsi dan Keterampilan Multirepresentasi Mahasiswa S2/53 Pendidikan Sains- IDR 40.000.000 (research member)<br><br>**2019**. Pengembangan Model Pembelajaran ORSAEV untuk Meningkatkan Kesiapsiagaan Bencana Bagi Mahasiswa Calon Guru – IDR 100.000.000 (research member).<br>**2020.** Model OR-IPA Online Untuk Meningkatkan Keterampilan Berpikir Kritis Mahasiswa: Alternatif Kuliah Online Di Era Pandemic Covid-19 IDR.40.000.000. (research member).<br>**2020**. Literasi Sains Mahasiswa Pasca Ditinjau Dari Kemampuan Menyelesaikan Masalah Lingkungan Berbasis Isu COVID 19. IDR.20.000.000. (research member).<br>**2020**. Pengembangan Bahan Ajar Berbasis Android untuk materi Taksonomi Bloom IDR.12.000.000. (research member).<br>2021. Pengembangan Instrumen Penilaian Keterampilan Berpikir Tinggi (HOTS). IDR. 20.000.000. (research chair)<br>2021 Kepraktisan dan Kefektifan Model OR-IPA online untuk Meningkatkan Keterampilan Berpikir Kritis Mahasiswa (research member). IDR 20.000.000<br>2021 Pemetaan Profil Tesis Mahasiswa S2 Prodi Pendidikan Sains Sebagai Upaya Meningkatkan Kinerja Penelitian Dan Publikasi (research member). IDR 20.000.000<br><br>2021 Efektivitas Perangkatan Pembelajaran Integrasi Literasi, Karakter dan Kompetensi 4C (Critical Thinking, Creativity, Collaboration, and Communication) Sebagai bentuk Role Model Pengembangan Perangkat Mahasiswa Pendidikan Sains Unesa di Era Pandemi Covid-19 IDR 10.000.000 |

| **Patents and proprietary rights** | **Title** | **Year** |
|---|---|---|
| | **HAKI**. Pemetaan Profil Laboratorium Fisika SMA Di Jawa Timur Melalui Photovoice. ( No. Pencatatan 000190380) | 2020 |
| | **HAKI.** Buku Model OR-IPA Online Untuk Meningkatkan Keterampilan Berpikir Kritis Mahasiswa ( No. Pencatatan 000217655) | 2020 |
| | **HAKI. Buku** Pembelajaran Kreatif Berbasis Otonomi ( No Pencatatan 000238187) | 2021 |
| | **HAKI. Buku** Buku Panduan Bilik Steril Otomatis Berbasis Sensor 000282617 | 2021 |

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| **Important publications over the last 5 years** | Title | Year |
| | *The Aplication of Inquiry Learning Model To Improve " Satu Atap" Student's Learning Results at SMPN 4 Singosari Malang.* Volume 5, No 1. Tahun 2016. Jurnal Pendidikan IPA Indonesia (JPII)<br>: https://dx.doi.org/10.15294/jpii.v5i1.5788 | 2016 |
| | The Improvement of Student's Scientific Literacy through Guided inquiry Learning Model on Fluid Dynamics Topics. JPFA Volume 7. Des 2017. P. 68-78. Jurnal Pendidikan Fisika dan Aplikasinya ( JPFA):<br>DOI: 10.26740/jpfa.v7n2.p68-78 e-ISSN: 2477-1775<br>http://journal.unesa.ac.id/index.php/jpfa | 2017 |
| | Pendampingan Implementasi Penilaian Pendidikan Di Perguruan Muhammadiyah Wiyung Surabaya. Vol 1 no 2 ( 2016). Jurnal ABDI-Media Pengabdian Kepada Masyarakat<br>DOI:http://dx.doi.org/10.26740/ja.v1n2p102-109.<br>. | 2016 |
| | Analysis of College Students' Misconception on Geometrical Optics Vol 1 ICST 2018. Atlantis Highlights in Engineering (AHE).<br>https://doi.org/10.2991/icst-18.2018.18 | 2018 |
| | Penggunaan Facebook Sebagai Media Inovatif Dalam Pembelajaran Smp Dan Sma Di Perguruan Muhammadiyah Wiyung Surabaya. Jurnal ABDI-Media Pengabdian Kepada Masyarakat<br><br>Abadi, Vol.3 No.2 Januari 2018, hal. 68 – 75<br>DOI:http://dx.doi.org/10.26740/ja,v3n2p68-75 | 2018 |
| | The Effectivness Of CPI Model To Improve Positive Attitude Toward Science (Pats) For Pre-Service Physics Teacher**.** Vol. 997/ 2018' Journal of Physics : Conference Series (JPCS)<br><br>: https://iopscience.iop.org/article/10.1088/1742-6596/997/1/012013 | 2018 |
| | The Effectivness Of CPI Model To Improve Science Literacy For Pre-Service Physics Teacher**.** V19-2018-1-8<br>**JSE. Journal of Science Education** | 2018 |
| | Effectiveness of literacy learning model to improve skills of scientificliteracy learning plan for physics teacher candidates. IOP Conf. Series: Journal of Physics: Conf. Series1171 (2019)<br>Journal of Physics: Conf. Series1171 (2019)<br>https://iopscience.iop.org/issue/1742-6596/1171/1 | 2019 |
| | The Impact of Environmental Based Physics Learning on Students' Concept Mastery and Ecopreneurship Management<br>https://ojs.ikipmataram.ac.id/index.php/prismasains/article/view/3016 (Ketua) | 2020 |

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| | Train the skills of making HOTS-based physics questions to physics teachers in Mojokerto. (Ketua)<br>JPCS : **1805** (2021) 012027 IOP Publishing doi:10.1088/1742-6596/1805/1/012027 | 2021 |
| | Need assessment of physics learning evaluation course on covid-19 pandemic era in Bloom's taxonomy topic (anggota)<br>Berkala Ilmiah Pendidikan Fisika: Volume 9 No.1, 2021, pp 57-71 | 2021 |
| | E-LS on The Subject of Temperature: The First Work of a Science-Physics Teacher at Siti Aminah Junior High School Surabaya (anggota)<br>JPCS SNF 2021 **2110** (2021) 012025 doi:10.1088/1742-6596/2110/1/012025 IOP Publishing<br>https://iopscience.iop.org/issue/1742-6596/2110/1 | 2021 |
| | Critical Thinking Skills on Physics Learning during COVID-19 Pandemic: A Bibliometric Analysis using VOSViewer<br>(anggota)<br>JPCS SNF 2021 **2110** (2021) 012025 doi:10.1088/1742-6596/2110/1/012025 IOP Publishing<br>https://iopscience.iop.org/issue/1742-6596/2110/1 | 2021 |
| | Improving the Ability to Develop Scientific Articles among Physics Teachers (Ketua)<br>JPCS SNF 2021 **2110** (2021) 012025 doi:10.1088/1742-6596/2110/1/012025 IOP Publishing<br>https://iopscience.iop.org/issue/1742-6596/2110/1 | 2021 |

| **Activities in specialist bodies** | ***Organization*** | ***Position*** | ***Period*** |
|---|---|---|---|
| | Physical Society of Indonesia (PSI) | Member | 2018 – Now |
| | Perkumpulan Pendidik IPA Indonesia (PPII) | Member | 2018– Now |