



Name : Dr. Nita Handayani, M.Si.
 Position : Associate Professor
 Department : Physics
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 Teaching and Research Area : Nuclear Physics, Medical Physics

Academic Career:

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Physics	Institut Teknologi Bandung	2018
Master/MSc degree	Physics	Universitas Gadjah Mada	2006
Undergraduate degree	Physics	Universitas Sebelas Maret	2003

Employment:

Position	Employer	Period
Lecturer	UIN Sunan Kalijaga Yogyakarta	2008 - present
Secretary	Department of Physics	2018 - 2020
Head	Department of Physics	2012 - 2013
Secretary	Faculty Academic Senate	2020 - 2023

Primary Publications:

No	Title	Journal	Volume	Issue	Year
1	Studi Q-EEG: Analisis Konektivitas Fungsional Otak Pada Anak Autism Spectrum Disorder (ASD)	Lontar Physics Today	Vol. 1	No. 1	2023
2	Analisis Data EEG Pada Penderita Mild Alzheimer's Disease Menggunakan Metode ICA (Independent Component Analysis)	Indonesian Journal of Applied Physics (IJAP)	Vol. 12	No. 1	2022
3	Validasi Sistem Single Electrode Electroencephalograph (EEG) Berbasis Arduino Uno Sebagai Perekam Sinyal Otak	Prosiding Seminar Nasional Fisika	Vol. 1		2022
4	QEEG-based Brain Mapping of Internet Pornography Addicted Adolescents	Journal of Health and Medical Sciences	Vol. 4	No. 4	2021

5	Analisis Spektral Daya dan Koherensi Sinyal Electroencephalography (EEG) Area Frontal Pada Pecandu Rokok	Sunan Kalijaga Journal of Physics	Vol. 3	No.1	2021
6	Rancang Bangun Prototype Single Electrode EEG Berbasis Arduino Uno	Sunan Kalijaga Journal of Physics	Vol. 3	No.1	2021
7	Review: Literature Study of Particle Accelerator Development and Its Applications In Material Physics Research	Proc. Internat. Conf. Sci. Engin.	Vol. 4	-	2021
8	Review: Utilization of Nuclear Technology in Agriculture and Food Sector	Proc. Internat. Conf. Sci. Engin.	Vol. 4	-	2021
9	Brainwaves Analysis Using Spectral Entropy in Children with Autism Spectrum Disorders (ASD)	Journal of Physics: Conf. Series. IOP Publishing	Vol. 1505	-	2020
10	Signal Comparison of Developed EEG Device and Emotiv Insight Based on Brainwave Characteristics Analysis	Journal of Physics: Conf. Series. IOP Publishing	Vol. 1505	-	2020
11	The development of Arduino-based low-cost wireless modular device for brainwave acquisition	Journal of Physics: Conf. Series. IOP Publishing	Vol. 1248	-	2019
12	Characterization of the Changes in Electroencephalogram Power Spectra due to Sound Stimulation	Journal of Physics: Conf. Series. IOP Publishing	Vol. 1248	-	2019
13	Simulation of Neural Network-Multicriterion Optimization Image Reconstruction Technique (NN- MOIRT) for imaging using 32-channel Brain ECVT Sensor	Journal of Physics: Conf. Series IOP Publishing	Vol. 1127	-	2019
14	Analisis spektral entropi dan kompleksitas sinyal EEG pada Alzheimer's Disease	Journal of Medical Physics and Biophysics	Vol. 5	No. 2	2018
15	Coherence and Phase Synchrony Analyses of EEG Signals in Mild Cognitive Impairment (MCI): A Study of Functional Brain Connectivity	Polish Journal of Medical Physics and Engineering	Vol. 24	No. 1	2018
16	Studi Awal: Pengaruh Game Kekerasan Terhadap Aktivitas Otak Anak Melalui	Jurnal Penelitian Fisika dan Aplikasinya (JPFA)	Vol 07	No. 1	2017



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	Pemetaan Sinyal Otak (Brain Mapping) Menggunakan Wireless EEG				
17	Analisis Spektral Daya dan Koherensi EEG Pada Anak Penderita Autism Spectrum Disorders (ASD)	Jurnal Wahana Fisika	Vol. 02	No. 2	2017
18	Resting State EEG Power, Intra- Hemisphere and Inter- Hemisphere Coherence in Bipolar Disorder	AIP Conference Proceedings	1817	-	2017

Involvement in the Professional Associations:

Organization name	Specific role	Level	Period
PSI (Physical Society of Indonesia)	Member	National	2018 - present
AFISMI (Aliansi Fisikawan Medik Indonesia)	Member	National	2022 - present