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Penulis : Tining Haryanti, Amirul Haq, Rina

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1	Submit Artikel	10 Februari 2025
2	Revised Manuscript	1 April 2025
3	Response to Reviewer's Comments	2 Mei 2025
4	Accepted Paper	25 Juni 2025
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7/3/25, 11:56 PM

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Prof. Aris Doyan, M.Si., Ph.D <jppipa@unram.ac.id> to me

Tining Haryanti:

Thank you for submitting the manuscript, "Analysis of the Relationship between Brain Waves and Learning Readiness of Students with Disabilities Using Electroencephalography (EEG) Signals " to Jurnal Penelitian Pendidikan IPA. With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site:

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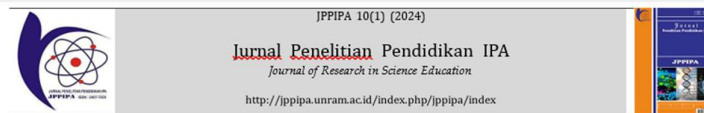
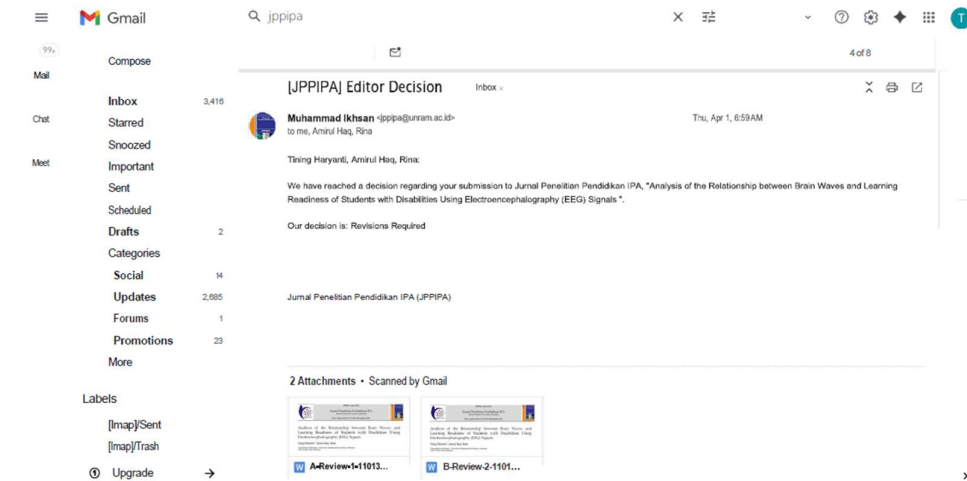
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Revised Manuscript 1 April 2025

7/4/25, 12:10 AM

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Analysis of the Relationship between Brain Waves and Learning Readiness of Students with Disabilities Using Electroencephalography (EEG) Signals

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Abstract: This study aims to analyze the relationship between brainwave activity and the learning readiness of students with disabilities by utilizing EEG (Electroencephalography) signals. EEG signals are used to detect the brain's electrical activity that reflects mental states, including focus, concentration, and readiness to receive learning. This study was conducted at SLB 'Alsyiah Krian' with a quantitative approach through EEG signal measurement before and during the learning process. The results showed a significant correlation between the dominance of alpha and beta waves with learning readiness, while the dominance of theta and delta waves indicated unpreparedness. These findings provide a foundation for the development of a more inclusive, objective, and adaptive neurotechnology-based learning approach for students with disabilities.

Keywords: Disabilities, Electroencephalography, Inclusive Education, Learning Readiness, Neurotechnology

Introduction

Inclusive education is a form of educational service that ensures that every child, including those with special needs, has equal access to quality learning. Based on the WHO report, Indonesia has more than 10 million people with disabilities, most of whom still face obstacles in accessing equal education services. Extraordinary Schools (SLB) as special educational institutions in Indonesia play an important role in bridging this need (Padli Nasution & Andriana, 2016; Syaifulrohmah & Nasution, 2021).

However, in practice, many SLBs still face

learning process. Conventional approaches that rely on manual observation are often not objective enough in identifying students' mental readiness to learn. In fact, learning readiness is an important factor that determines the success of the learning process, especially for students with special needs.

It is in this context that EEG (Electroencephalography) technology comes into play as a solution that offers objectivity and accuracy in detecting mental states. EEG has been widely used in the fields of neurology and psychology to analyze brain activity and is now beginning to be integrated in the field of education. The use of EEG in education allows

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Tining Haryanti INA
Dear Editor Here is the revision of the paper thanks you
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Tining Haryanti INA <ining.haryanti@gmail.com>
to Muhammad, Aminul Haq, Rina
Fri, May 2, 8:18 PM

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