

Cover Letter

Dates of submission

Editorial Team of Indonesian Journal of Geography, Faculty of Geography, Universitas Gadjah
Mada, Indonesia

Dear Editor of IJG,

I am submitting a manuscript for consideration of publication in Indonesian Journal of Geography. The manuscript is entitled "GEOSPATIAL EDUCATION AS A MEANS OF IMPROVING THE SKILLS OF GEOGRAPHY TEACHERS". It has been approved by all authors, has not been published elsewhere and that it has not been submitted simultaneously for publication elsewhere.

We wish to submit an original research article entitled " Geospatial education as a means of improving the skills of geography teachers" for publication in the journal Education Sciences.

We confirm that this work is original and has not been published elsewhere, nor is it currently under consideration for publication elsewhere.

No experiments were conducted on humans, their skin, or animals during the research process. All procedures were carried out in accordance with ethical standards and norms.

Using various scientific methods (review, analysis, synthesis of scientific literature, and comparison of educational documents), the research analyzes the role of GST in Kazakhstan's secondary education curricula and reveals that studies on geography teachers' professional needs regarding geospatial knowledge are scarce, which motivated us to undertake this research.

The article reviews foreign research and practices, examining the role of geospatial technologies (GST) in the geography curricula of Kazakhstan's secondary schools and the professional demands of geography teachers regarding geospatial knowledge. Based on these studies, training programs for professional development courses titled "Applied Foundations of GST in Teaching School Geography of Updated Content" have been developed, consisting of two levels (basic level and advanced level). Additionally, a manual has been created to provide methodological support to teachers. The effectiveness of the first-level curriculum was tested through experimental research. Before the professional development course, participants' spatial skills were at "insufficient" and "average" levels, but after the course, they improved to "high" and "very high" levels. The research results suggest that, by studying the advanced level curriculum, geography teachers can further deepen their geospatial knowledge and skills.

We believe this manuscript is suitable for publication in the journal Education Sciences, as it investigates the development of a training curriculum for geography teachers aimed at enhancing their qualifications and evaluating its effectiveness through an experimental approach.

All authors agree that editorial correspondence and requests for copies will be sent to.

For the purpose of reviewing my manuscript, I suggest the following reviewers:

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3. Ari Widodo, Professor in Science Education, Faculty of Mathematics and Science Education, Indonesia University of Education Bandung – Indonesia, widodo@upi.edu.3

Thank you very much for your consideration.

Yours Sincerely,

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