

Yuni Dwi Herawati, 2026. Pengembangan Modul Ajar Topik Segitiga Berbasis Kemampuan Spasial di Sekolah Dasar, Program Studi Pendidikan Guru Sekolah Dasar, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura. Dosen Pembimbing: Dr Indah Setyo Wardhani, S.Pd., M.Pd.

ABSTRAK

Penelitian ini dilatarbelakangi oleh belum optimalnya pembelajaran matematika pada topik segitiga yang belum memfasilitasi kemampuan spasial siswa sekolah dasar. Tujuan penelitian ini untuk mendeskripsikan proses dan hasil pengembangan modul ajar topik segitiga berbasis kemampuan spasial di Sekolah Dasar yang memenuhi kriteria valid, praktis, dan efektif. Penelitian ini merupakan penelitian dan pengembangan (*Research and Development*) dengan menggunakan model Analyze, Design, Development, Implementation, Evaluation (ADDIE). Subjek penelitian adalah siswa kelas V SDN Cangkringan Nganjuk. Pengumpulan data dilakukan melalui wawancara, observasi, tes, angket, dan dokumentasi. Instrumen penelitian meliputi lembar validasi ahli, lembar observasi aktivitas guru dan siswa, angket respons siswa, serta tes hasil belajar. Analisis data menggunakan teknik analisis kualitatif dan kuantitatif. Hasil penelitian menunjukkan bahwa modul ajar yang dikembangkan memperoleh tingkat validitas sebesar 96% dengan kategori sangat valid, tingkat kepraktisan sebesar 96% dengan kategori praktis, dan tingkat keefektifan menunjukkan bahwa modul ajar memperoleh kategori kepraktisan dari hasil kemampuan spasial siswa, ketercapaian hasil belajar siswa di atas KKTP, observasi aktivitas siswa, dan angket respon siswa dengan memperoleh tingkat keefektifan sebesar 91%. Dengan demikian, modul ajar topik segitiga berbasis kemampuan spasial yang dikembangkan dinyatakan layak digunakan dalam pembelajaran matematika kelas V Sekolah Dasar karena memenuhi kriteria valid, praktis, dan efektif.

Kata Kunci: Modul Ajar, Kemampuan Spasial, Segitiga

Yuni Dwi Herawati, 2026. *Development of a Spatial Ability-Based Teaching Module on the Topic of Triangles for Elementary School Students*. Undergraduate Program in Elementary School Teacher Education, Faculty of Teacher Training and Education. Trunodjoyo Madura University. Supervisor. Dr. Indah Setyo Wardhani, S.Pd., M.Pd

ABSTRACT

This study was motivated by the suboptimal implementation of mathematics instruction on the topic of triangles, which has not adequately facilitated the development of elementary school students' spatial ability. The objective of this study was to describe the process and outcomes of developing a spatial ability-based teaching module on the topic of triangles for elementary schools that meets the criteria of validity, practicality, and effectiveness. This study employed a Research and Development (R&D) approach using the Analyze, Design, Development, Implementation, and Evaluation (ADDIE) model. The research participants were fifth-grade students at Elementary school of Cangkringan Nganjuk. Data were collected through interviews, observations, tests, questionnaires, and documentation. The research instruments consisted of expert validation sheets, teacher and student activity observation sheets, student response questionnaires, and learning achievement tests. The collected data were analyzed using both qualitative and quantitative analysis techniques. The findings indicated that the developed teaching module achieved a validity score of 96%, categorized as highly valid, a practicality score of 96%, categorized as practical, and an effectiveness score of 91%, indicating that the module was highly effective. The effectiveness was evidenced by students' spatial ability, learning achievement exceeding the Minimum Learning Achievement Criteria (Criteria for the Attainment of Learning Objectives), observations of student learning activities, and positive student responses. Therefore, the developed spatial ability-based teaching module on the topic of triangles is considered suitable for use in fifth-grade elementary school mathematics instruction, as it fulfills the criteria of validity, practicality, and effectiveness.

Keywords: *Teaching Module, Spatial Ability, Triangles*