

**LITERASI MATEMATIS KOMUNITAS ADAT CIGUGUR
DITINJAU DARI PERSPEKTIF
ETHNOMATHEMATICS DAN *ETHNOMODELING***

DISERTASI

Diajukan untuk Memenuhi Sebagian dari Persyaratan
Memperoleh Gelar Doktor Ilmu Pendidikan
dalam Bidang Pendidikan Matematika



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ETHNOMATHEMATICS DAN *ETHNOMODELING***

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Sebuah Disertasi yang diajukan untuk memenuhi salah satu syarat memperoleh gelar Doktor Pendidikan (Dr.) pada Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam

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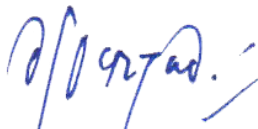
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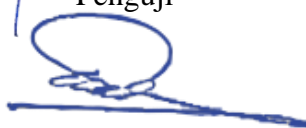
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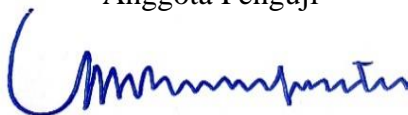
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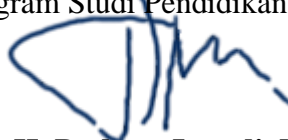


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ABSTRAK

Uba Umbara (2020). Literasi Matematis Komunitas Adat Cigugur Ditinjau Dari Perspektif *Ethnomathematics* dan *Ethnomodeling*.

Penelitian ini bertujuan untuk mengkaji literasi matematis komunitas adat Cigugur ditinjau dari perspektif *ethnomathematics* dan *ethnomodeling*. *Ethnomathematics* dan literasi matematis adalah dua gagasan utama tentang mengetahui matematika dalam kehidupan sehari-hari. *Ethnomathematics* menekankan kompetensi seseorang orang yang berkembang dalam suatu kelompok budaya sementara literasi matematis merupakan kompetensi matematika seseorang yang digunakan dalam kehidupan sehari-hari. Eksplorasi mengenai *ethnomathematics* dirasakan tidak mampu memberikan hasil yang menonjol terutama dalam mengkonstruksi pemodelan matematis untuk tujuan pedagogis. Ide mengenai cara mengkonstruksi pemodelan matematis untuk tujuan pedagogis kemudian diabstraksi dan dikontraskan dengan istilah *ethnomodeling*. Beberapa penelitian mengenai *ethnomathematics* dan literasi matematis telah banyak dilakukan baik secara parsial maupun simultan, namun integrasi antara keduanya tidak terfokus pada apakah *ethnomathematics* dan pemodelan matematis yang ada dalam suatu kelompok budaya. Peneliti beranggapan pentingnya penelitian ini untuk dilakukan agar kekhasan nilai dan bentuk *ethnomathematics* dapat digunakan sebagai suatu pendekatan pedagogik. Pendekatan penelitian yang digunakan adalah pendekatan fenomenografi dan etnometodologi dengan desain etnografi realis. Subjek penelitian yang ditentukan dalam penelitian ini berjumlah 5 orang yang terdiri dari ketua Adat, 2 Sesepuh adat dan 2 pemuda komunitas Adat Cigugur Kuningan. Hasil penelitian menunjukkan ide, aktivitas, dan prosedur matematika yang dilakukan oleh komunitas adat Cigugur memenuhi aspek literasi matematis yang terdiri dari proses, konten, dan konteks. Berdasarkan studi *ethnomathematics*, komunitas adat Cigugur mempraktikkan dimensi kegiatan matematika universal dasar, seperti menghitung, mengukur, menempatkan, dan menjelaskan. Sementara itu berdasarkan studi *ethnomodeling*, ide dan praktik matematika yang dilakukan oleh masyarakat relevan dengan konsep pencacahan, operasi bilangan bulat, himpunan, relasi, kekongruenan, lingkaran, dan segi banyak beraturan. Selanjutnya, Hasil penelitian menunjukkan ide, aktivitas, dan prosedur matematika yang diidentifikasi berdasarkan kajian *ethnomathematics* dan *ethnomodeling* yang dilakukan oleh komunitas adat Cigugur memenuhi aspek literasi matematis. Aspek tersebut saling terkait satu sama lain, diantaranya: proses, konten, dan konteks.

Kata Kunci: Literasi Matematis, *Ethnomathematics*, dan *Ethnomodeling*.

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