

**EKSISTENSI MATEMATIKA DAN PROSES BERPIKIR
IKHWAN THORIQOH QODIRIYYAH NAQSYABANDIYYAH MA'HAD
SURYALAYA-SIRNARASA DALAM PEMECAHAN MASALAH:
ETNOMATEMATIKA, SEMIOTIKA, DAN GROUNDED THEORY**

DISERTASI

**Diajukan untuk memenuhi syarat memperoleh gelar
Doktor Pendidikan Matematika**



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**PROGRAM STUDI PENDIDIKAN MATEMATIKA
FAKULTAS PENDIDIKAN MATEMATIKA DAN ILMU PENGETAHUAN ALAM
UNIVERSITAS PENDIDIKAN INDONESIA
2023**

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salah satu syarat memperoleh gelar Doktor Pendidikan (Dr.) pada
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Dengan ini Saya menyatakan bahwa disertasi dengan judul **Eksistensi Matematika dan Proses Berpikir Ikhwan Thoriqoh Qodiriyyah Naqsyabandiyah Ma'had Suryalaya-Sirnarasa dalam Pemecahan Masalah: Etnomatematika, Semiotika, dan Grounded Theory** beserta seluruh isinya adalah benar-benar karya Saya sendiri, dan Saya tidak melakukan penjiplakan atau pengutipan dengan cara-cara yang tidak sesuai dengan etika keilmuan yang berlaku. Saya siap menanggung risiko/sanksi yang dijatuhkan kepada Saya apabila kemudian hari ditemukan adanya pelanggaran terhadap etika keilmuan dalam karya Saya ini, atau ada klaim pihak lain terhadap keaslian karya Saya ini.

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KATA PENGANTAR

Alhamdulillahilladzi fadholana 'alaa katsiiri min 'ibaadihil mu'iniin. Atas berkat rahmat (الله), restu orang tua serta do'a keluarga, dan karomah guru-guru, penulis dapat menyelesaikan disertasi yang berjudul **Eksistensi Matematika dan Proses Berpikir Ikhwan Thoriqoh Qodiriyyah Naqsyabandiyyah Ma'had Suryalaya-Sirnarasa dalam Pemecahan Masalah: Etnomatematika, Semiotika, dan Grounded Theory**. Disertasi ini disusun dalam rangka memenuhi syarat untuk memperoleh gelar doktor program studi Pendidikan matematika.

Penelitian ini berada dalam lingkup filsafat pendidikan matematika yang mengungkap eksistensi matematika dalam ajaran sufi, *Thoriqoh Qodiriyyah Naqsyabandiyyah* (TQN), sebagaimana catatan sejarah matematika yang menerangkan bahwa pada jaman Pythagoras matematika sangat erat dengan teologi dan mistisme. Salah satu tradisi Sufi yang dikenal erat dengan mistisme ini secara epistemologi tidak lepas dari eksistensi matematika terutama rahasia bilangan dibalik ritual amaliah-amaliah para pengamalnya. Fakta antropologis menunjukkan bahwa karakteristik bangsa Indonesia sangat erat dengan mistis bahkan tidak jarang pendekatan non rasional digunakan sebagai alternatif pemecahan masalah. Penulis mencoba menerangkan bagaimana eksistensi matematika dalam tradisi TQN dan kaitannya dengan pemecahan masalah (*real life problem solving*).

Penulis menyadari sepenuhnya bahwa disertasi ini masih belum sempurna. Oleh karena itu, dengan segala kerendahan hati penulis mengharapkan saran dan kritikan yang dapat menyempurnakan kajian ini. Penulis berharap agar penelitian ini dapat memberikan manfaat serta berkembang wacana ilmiah terkait topik disertasi ini.

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Penulis

ABSTRAK

Eksistensi Matematika dan Proses Berpikir Ikhwan *Thoriqoh Qodiriyyah Naqsyabandiyyah Ma'had Suryalaya-Sirnarasa* dalam Pemecahan Masalah: Etnomatematika, Semiotika, dan *Grounded Theory*

Tujuan penelitian ini untuk mengeksplorasi eksistensi matematika dalam ajaran *Thoriqoh Qodiriyyah Naqsyabandiyyah* (TQN), mengungkap makna-makna semiotika pada bilangan dan gerakan zikir TQN, dan membangun teori substantif untuk menggambarkan bagaimana proses berpikir para Ikhwan TQN dalam menyelesaikan masalah nyata melalui pendekatan spiritual. Dalam penelitian ini digunakan pendekatan *multimethod* yang meliputi metode etnografi, studi fenomenologi, dan *grounded theory*. Setidaknya ada 60 responden dilibatkan dalam wawancara mendalam yang diperoleh melalui *convenience*, *purposive*, dan *snowball sampling*. Teknik pengumpulan data menggunakan wawancara mendalam, studi pustaka (telaah kitab), foto dan video, dan catatan lapangan. Teori substantif dibangun melalui tahapan *open coding*, *axial coding*, *selective coding with memo analytic writing*, dan pembentukan teori. Dari penelitian ini diperoleh: (1) terdapat banyak representasi matematika yang menjelaskan amaliah TQN seperti asal-usul perhitungan bilangan zikir 165 dan angka-angka pada bacaan khataman; (2) pada praktiknya secara sadar para Ikhwan TQN menggunakan konsep-konsep matematika untuk mengamalkan zikir banyak dan khataman; (3) secara semiotika amaliah TQN (khususnya bilangan zikir) memiliki makna spiritual dan dapat dijelaskan untuk menjawab mitos-mitos yang berkembang terkait *thoriqoh*; dan (4) berdasarkan studi fenomenologi para responden dapat diajukan teori substantif bahwa eksistensi matematika memiliki peran penting dalam upaya memecahkan masalah melalui pendekatan spiritual dengan tiga faktor kunci kuantitas, kualitas, dan kontinuitas. Semakin tinggi kuantitas (semakin besar bilangannya/semakin banyak ritual), semakin khusyuk, dan/atau semakin konsisten (*istiqomah*) pengalaman *riyyadoh* maka semakin kuat pembenaran atas keyakinan spiritual (*corroboration*) yang dirasakan pengamalnya.

Kata Kunci: Berpikir Reflektif, Etnomatematika, Pendekatan Spiritual, *Real Life Problem-Solving*, Semiotika, Sufism, *Thoriqoh Qodiriyyah Naqsyabandiyyah* (TQN) Suryalaya-Sirnarasa.

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ABSTRACT

The Existences of Mathematics and The Process of Thinking of Ikhwan Tariqa Qodiriyyah Naqsyabandiyyah Ma'had Suryalaya-Sirnarasa in Problem Solving: Ethnomathematics, Semiotics, and Grounded Theory

The purposes of this study are to explore the existences of mathematics in Tariqa Qodiriyyah Naqsyabandiyyah (TQN), reveal the semiotic meanings of the numbers and method of dhikr, and build substantive theories to describe the process of thinking of in solving real problems through a spiritual approach. In this study a multimethod approach was used which included ethnographic, phenomenological studies, and grounded theory. At least 60 respondents were involved in in-depth interviews obtained through convenience, purposive and snowball sampling. Data collection techniques used in-depth interviews, literature review (book review), photos and videos, and field notes. Substantive theory is built through the stages of open coding, axial coding, selective coding with memo analytic writing, and theory formation. From this research, it was obtained: (1) there are many mathematical representations that explain the practice of TQN such as the origin of the calculation of the 165 dhikr number and the other various numbers in Khataman; (2) the Ikhwan consciously use many type of mathematical concepts to practice lots of dhikr and Khataman; (3) semiotically the practice of TQN (especially the number of dhikr) has a spiritual meaning and can be explained to answer the myths that have developed regarding Tariqa; and (4) based on the phenomenological study of the respondents, substantive theory can be proposed that the existence of mathematics has an important role in efforts to solve real life problems through a spiritual approach with three key factors: quantity, quality, and continuity. The higher the quantity (the greater the number/the more rituals), the more solemn, and/or the more consistent the experience of *riyyadoh*, the stronger the justification for spiritual beliefs (corroboration) felt by the practitioner.

Keywords: Ethnomathematics, Spiritual Approach, Real Life Problem-Solving, Reflective Thinking, Semiotics, Sufism, Thoriqoh Qodiriyyah Naqsyabandiyyah (TQN) Suryalaya-Sirnarasa.

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