

**DESAIN PEMBELAJARAN MATEMATIKA BERMUATAN
COMPASSION UNTUK MENGEMBANGKAN DISPOSISI PRODUKTIF
SISWA SEKOLAH DASAR**

DISERTASI

Diajukan untuk memenuhi Sebagian Syarat memperoleh gelar
Doktor Pendidikan Dasar



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**PROGRAM STUDI DOKTOR PENDIDIKAN DASAR
SEKOLAH PASCASARJANA
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2023**

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memperoleh gelar Doktor (Dr.) pada Program Pendidikan Dasar

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LEMBAR PENGESAHAN

DESAIN PEMBELAJARAN MATEMATIKA BERMUATAN *COMPASSION*
UNTUK MENGEMBANGKAN DISPOSISI PRODUKTIF SISWA SEKOLAH
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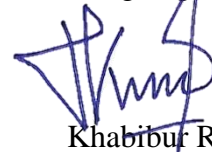
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Dengan ini menyatakan bahwa disertasi dengan judul “Desain Pembelajaran Matematika Bermuatan *Compassion* untuk Mengembangkan Disposisi Produktif Siswa Sekolah Dasar” ini beserta seluruh isinya adalah benar-benar karya saya sendiri. Saya tidak melakukan penjiplakan atau pengutipan dengan cara-cara yang tidak sesuai dengan etika ilmu yang berlaku dalam masyarakat keilmuan. Atas pernyataan ini, saya siap menanggung risiko atau sanksi apabila di kemudian hari ditemukan adanya pelanggaran etika keilmuan atau ada klaim dari pihak lain terhadap keaslian karya saya ini.

Bandung, Agustus 2023



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1907075

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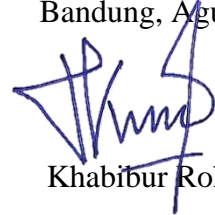
Setelah melalui prosedur yang panjang dan berliku, akhirnya penulisan disertasi dengan judul “Desain Pembelajaran Matematika bermuatan *Compassion* untuk Mengembangkan Disposisi Produktif Siswa Sekolah Dasar” dapat diselesaikan pada waktu yang tepat. Rampungnya penulisan disertasi ini, semata-mata berkat karunia dan rahmat dari Allah SWT. Di antara karunia Allah kepada penulis adalah dikirimkan-Nya orang-orang baik yang membantu penyelesaian disertasi ini. Di antara mereka adalah para pembimbing yang penuh kesabaran dan ketelitian memberikan pengarahan kepada penulis. Juga para teman, kolega, keluarga dan banyak pihak lainnya.

Disertasi ini mengulas tentang upaya membawa nilai sosial emosional, khususnya *compassion*, ke dalam pembelajaran matematika di sekolah dasar. Ide besar disertasi ini adalah upaya mengatasi hambatan psikologis emosional pada pembelajaran matematika melalui muatan sosial emosional. Selain itu penelitian ini juga didorong keyakinan bahwa nilai dan karakter harus diajarkan secara inklusif melalui semua mata pelajaran. Termasuk di antaranya matematika. Sifat pantang menyerah, gigih dan terus mencoba, rasa ingin tahu yang tinggi, serta kepedulian terhadap orang lain juga bisa dilatihkan melalui pembelajaran matematika. Melalui disertasi ini pula penulis berharap agar para siswa mampu melihat keindahan yang ada pada matematika. Matematika akan membantu seseorang menjadi pribadi berpemikiran logis, sistematis, analitis, dan sekaligus memiliki kemampuan pemecahan masalah yang bisa digunakan untuk menyelesaikan masalah sendiri maupun orang lain.

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Khabibur Rohman

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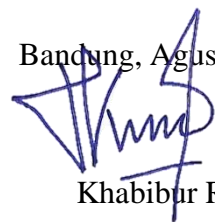
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Khabibur Rohman

ABSTRAK

Khabibur Rohman (2023). Desain Pembelajaran Matematika bermuatan *Compassion* untuk Mengembangkan Disposisi Produktif Siswa Sekolah Dasar.

Hambatan yang ditemui siswa pada pembelajaran matematika bukan hanya pada aspek kognitif, melainkan juga psikologis. Meski bukan gagasan populer, membawa muatan sosial-emosional sebagai upaya mengatasi hambatan psikologis pada pembelajaran matematika bukanlah sesuatu yang mustahil. Membawa muatan sosial-emosional ke dalam pembelajaran matematika diharapkan mampu menjawab permasalahan tingginya kecemasan matematika dan persepsi negatif yang selama ini identik dengan matematika. *Compassion* merupakan salah satu muatan sosial-emosional yang relevan dengan karakteristik siswa, tujuan pembelajaran matematika dan sistem pendidikan Indonesia. Tujuan dari penelitian ini adalah untuk mengembangkan desain pembelajaran matematika bermuatan *compassion* untuk mengembangkan disposisi produktif siswa sekolah dasar. Desain penelitian yang digunakan adalah *Research and Development* dengan model pengembangan ADDIE (*analyze, design, develop, implementation* dan *evaluation*). Penelitian dimulai dengan melakukan analisis terhadap kebutuhan pembelajaran matematika dan realitas faktual disposisi produktif siswa sekolah dasar. Hasil analisis tersebut dijadikan landasan untuk mengkonstruksi desain pembelajaran matematika bermuatan *compassion* yang diharapkan mampu mengembangkan disposisi produktif siswa. Desain pembelajaran matematika bermuatan *compassion* dikembangkan berdasarkan prinsip *Contentment, Activity, Relationship, Engagment* dan *Empathy*. Desain yang telah dikembangkan kemudian diuji efektivitas dan kepraktisan. Berdasarkan hasil uji tersebut dinyatakan bahwa desain pembelajaran matematika bermuatan *compassion* terbukti efektif mampu mengembangkan disposisi produktif siswa terutama pada indikator antusiasme, kepercayaan diri, kegigihan, rasa ingin tahu dan keinginan untuk berbagi. Selain itu, desain pembelajaran matematika bermuatan *compassion* praktis digunakan oleh guru dan siswa untuk mengembangkan disposisi produktif pada siswa sekolah dasar.

Kata kunci: *Compassion, Social-Emotional Learning, Kecemasan Matematika, Disposisi Produktif*

ABSTRACT

Khabibur Rohman (2023). Mathematics learning design contains compassion to develop productive dispositions of elementary school students.

Students encounter in learning mathematics are not only cognitive, but also psychological. Although not a popular concept, providing social-emotional content as an effort to overcome psychological barriers to learning mathematics is not something that is impossible. Providing social-emotional content into learning mathematics is expected to be able to answer the problem of high math anxiety and negative perceptions which have always been synonymous with mathematics. Compassion is a social-emotional content that is relevant to the characteristics of students, the goals of learning mathematics and the Indonesian education system. The purpose of this study was to develop a compassionate-filled mathematics learning design to develop the productive dispositions of elementary school students. The research design used is Research and Development with the ADDIE development model (analyze, design, develop, implementation and evaluation). The research begins with analyzing the needs of learning mathematics and the factual reality of the productive disposition of elementary school students. The results of this analysis are used as a basis for constructing compassionate mathematics learning designs that are expected to be able to develop students' productive dispositions. Compassion-filled mathematics learning designs are developed based on the principles of Contentment, Activity, Relationship, Engagment and Empathy. The designs that have been developed are then tested for effectiveness and practicality. Based on the test results, it was stated that the compassionate-filled mathematics learning design proved to be effective in developing students' productive dispositions, especially on the indicators of enthusiasm, self-confidence, persistence, curiosity and the desire to share. In addition, the compassionate mathematics learning design is practically used by teachers and students to develop productive dispositions in elementary school students.

Keywords: *Compassion, Mathematical Anxiety, Productive disposition, Social-Emotional Learning*

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