

## ABSTRAK

**Usnidar Nasution.** Analisis Kompetensi Guru Matematika dan Hubungannya dengan Kemampuan Koneksi Matematis Guru SMPN di Kota Binjai. Tesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2015.

Penelitian ini bertujuan untuk mengetahui: (1) Pengaruh kompetensi pedagogis, kepribadian, sosial profesional guru terhadap nilai UKG ; (2) Pengaruh kompetensi pedagogis guru terhadap nilai UKG ; (3) Pengaruh kompetensi kepribadian guru terhadap nilai UKG; (4) Pengaruh kompetensi sosial guru terhadap nilai UKG; (5) Pengaruh kompetensi profesional guru terhadap nilai UKG; (6) Pengaruh kompetensi pedagogis, kompetensi profesional dan nilai UKG terhadap kemampuan koneksi; (7) Pengaruh kompetensi pedagogis terhadap kemampuan koneksi; (8) Pengaruh kompetensi profesional guru terhadap kemampuan koneksi; (9) Pengaruh nilai UKG guru terhadap kemampuan koneksi ; (10) Peningkatan hasil workshop guru matematika di SMPN 3 Binjai. Penelitian ini merupakan eksperimen semu. Populasi penelitian adalah seluruh guru matematika SMPN Kota Binjai. Sampelnya terdiri dari 5 sekolah yang dipilih secara random yaitu SMPN 2, SMPN 3, SMPN 9, SMPN 10 dan SMPN 11 Kota Binjai. Instrumen yang digunakan terdiri dari angket kompetensi kepribadian, angket kompetensi sosial, tes kompetensi profesional dan tes kemampuan koneksi. Instrumen tersebut dinyatakan telah memenuhi syarat validitas dengan koefisien reliabilitas sebesar 0,932, 0,943, 0,709 dan 0,440 berturut-turut untuk angket kompetensi kepribadian, angket kompetensi sosial, tes kompetensi profesional dan tes kemampuan koneksi. Dalam penelitian ini data dianalisis dengan menggunakan analisis statistik deskriptif dan analisis statistik Inferensial. Analisis statistik data dilakukan dengan analisis jalur (*path analysis*). Hasil penelitian menunjukkan bahwa: (1) Besarnya pengaruh kompetensi pedagogik, kepribadian, sosial dan kompetensi profesional guru matematika secara simultan dan signifikan terhadap nilai UKG guru adalah 75,86% (2) Besarnya pengaruh kompetensi pedagogik guru matematika terhadap nilai UKG adalah 8,35%; (3) Besarnya pengaruh kompetensi kepribadian guru matematika terhadap nilai UKG adalah 6,76%; (4) Besarnya pengaruh kompetensi sosial guru matematika terhadap nilai UKG adalah 4,22%; (5) Besarnya pengaruh kompetensi profesional guru matematika terhadap nilai UKG adalah 9,49%; (6) Besarnya pengaruh kompetensi pedagogik dan nilai UKG secara simultan dan signifikan terhadap kemampuan koneksi sebesar 79,03% ; (7) Besarnya pengaruh kompetensi pedagogik guru matematika terhadap kemampuan koneksi guru matematika SMPN di Kota Binjai adalah 5,20%; (8) Besarnya pengaruh nilai UKG guru matematika terhadap kemampuan koneksi adalah 60,68%; (9) Besarnya pengaruh tidak langsung kompetensi pedagogis terhadap kemampuan koneksi melalui nilai UKG adalah 22,50%; Nilai rata-rata peserta workshop penyusunan silabus, RPP, materi, media dan instrumen penilaian dari tahap I ke tahap II terjadi peningkatan yang cukup signifikan yaitu sebesar 30,5.

**Kata Kunci:** Kompetensi Guru, Kemampuan Koneksi Matematis dan *Path Analysis*

## ABSTRACT

Usnidar Nasution. Analysis of the competence of teachers of mathematics and its relationship with math teachers SMP connection capability in the town of Binjai. Tesis. Medan: Master in State University of Medan.

This study aims to determine : (1) The great influence of pedagogis competence, personality, social, professional teacher assessment; (2) The great influence of pedagogis competency of teachers of UKG; (3) The great influence of personality on the competence of UKG; (4) The great influence of social competence of teacher's of UKG; (5) The great influence of teacher professional competency of UKG; (6) The great influence of pedagogis competence, professional competence and value UKG of ability connection; (7) The great influence of the competence of pedagogis connection; (8) The great influence of the ability of the teacher's professional ability connection; (9) The great influence of the teacher's ability of UKG value connection; (10) The great improvements workshop for the teachers of mathematics in Senior High School Binjai. This research is quasi experiment. The population of the research was the whole mathematics teacher in SMPN in Binjai. The writer take selected example from the five schools chosen at random is SMPN 2, SMPN 3, SMPN 9, SMPN 10, SMPN 11 Binjai City. The instrument used consisted of personality competency question form, social competence question form, the best of professional competence and test connection capabilities. The instrument is declared to have qualified the validity coefficient of reliability 0,932, 0,943, 0,709, dan 0,440 consecutive to the personality competence question form, social competence question form, the test of professional competence and test connection capabilities. In study, data were analyzed using descriptive statistics analysis and statistical analysis of inferensial. Statistical analysis of the data done path analysis. The result show that: (1) The great influence of pendagogis, personality, social, and math teacher's professional competencies simultaneously and signficantly to the value of UKG teacher is 75,86 %; (2) The great influence of pendagogis competence math teacher value of UKG is 8,35%; (3) The great influence of personality on the competence of UKG is 6,76; (4) The great influence of social competence of teacher's of UKG is 4,22%; (5) The great influence of teacher professional competency of UKG is 9,49%; (6) The great influence of pendagogis competence and the value of UKG simultaneously and significantly to the ability of connection of 79,03%; (7) The great influence of the competence of pendagogis math teacher to the ability connection math teacher SMPN in Binjai City is 5,20%; (8) The great influence value of UKG math teacher of the ability connection is 60,68%; (9) The magnitude of the impact is not direct connection capabilities of pedagogis competence through value UKG is 22,50%'; (10) The average value of syllabus preparation of workshop participants , lesson plan, media,teori, and assessment instruments from stage 1 to stage 2 took place a fairly significant increase of 30,5.

Keywords: Teacher Competence, The Ability Math Connection, and Path Analysis.