

ABSTRAK

M. Azhari Panjaitan, NIM 4163311037 (2020). Kajian Analisis Model Pembelajaran *Problem Based Learning* Terhadap Peningkatan Kemampuan Komunikasi Matematis Siswa.

Penelitian ini bertujuan Untuk mengetahui peningkatan kemampuan komunikasi matematis siswa yang diajar dengan model pembelajaran *problem based learning*, Untuk mengetahui pengaruh model pembelajaran *problem based learning* terhadap kemampuan komunikasi matematis siswa, Untuk mengetahui kelebihan dan kekurangan dari model pembelajaran *problem based learning* berdasarkan hasil temuan penelitian. Metode yang digunakan dalam penelitian ini adalah studi literatur (penelitian kepustakaan). Data yang dikumpulkan merupakan data sekunder berupa hasil penelitian dari jurnal ilmiah, buku, dan skripsi atau tesis. Selanjutnya, data tersebut dianalisis dengan teknik “analisis anotasi bibliografis”. Hasil penelitian menunjukkan bahwa (1) Penerapan model pembelajaran *problem based learning* yang diajarkan kepada siswa pada saat pembelajaran matematika dapat meningkatkan kemampuan komunikasi matematis siswa. Dibuktikan dengan hasil review data penelitian dimana meningkatnya hasil belajar siswa dan ketuntasan siswa dalam evaluasi kemampuan komunikasi matematis siswa. (2) Terdapat Pengaruh dari model pembelajaran *problem based learning* terhadap kemampuan komunikasi matematis siswa. Terbukti berdasarkan dari hasil review penelitian. Dimana model pembelajaran *problem based learning* dapat merubah pemikiran siswa sebelumnya menjadi lebih kreatif, aktif dalam membaca, menggali informasi, saling memberi pendapat, dan kreatif dalam menyelesaikan permasalahan matematika, rasional, dan minat belajar matematika yang tumbuh dari dalam diri siswa. (3) Beberapa kelebihan dan kekurangan model pembelajaran *problem based learning* berdasarkan temuan penelitian, yaitu dari sisi kelebihannya bahwa kemampuan komunikasi matematis siswa meningkat setelah pembelajaran dengan model *problem based learning*, siswa menjadi lebih aktif dalam pembelajaran, menjadikan siswa mampu mengerjakan soal yang berbeda dari contoh yang diberikan, siswa mampu mencari dengan sendiri, mengalami interaksi antar kelompok dan saling tukar pemikiran secara ilmiah, dan mampu menyelesaikan proses pemecahan masalah. Akan tetapi ada terdapat nilai negatif atau kekurangan dibalik pelaksanaan model pembelajaran berbasis masalah atau kendala yang dialami berupa persiapan pelaksanaan, kurangnya memahami apresiasi guru, jumlah kelompok terlalu banyak, dan keterbatasan waktu dalam pembelajaran.

Kata kunci : model pembelajaran *problem based learning*, komunikasi matematis

ABSTRACT

M. Azhari Panjaitan, NIM 4163311037 (2020). Study Analysis of Problem Based Learning Model Towards Improving students' Mathematical Communication Skill.

This study aimed to determine the improvement of students' mathematical communication skill taught through problem based learning model, To determine the effect of the problem based learning model on students' mathematical communication skill, To find out the advantage and disadvantage of the problem based learning model based on research findings. The method used in the study was the literature studies (library research). The data collected was secondary data in the form of research findings from scientific journals, books, and thesis or dissertation. Furthermore, the data were analyzed using the "bibliographic annotation analysis" technique. The findings of the study showed that (1) The application of the problem based learning model taught to students when learning mathematics could improve students' mathematical communication skill. It was proved by the research review finding a data which increased students' learning outcome and student completeness in evaluating students' mathematical communication skill. (2) There was the effect of the problem based learning model in learning on students' mathematical communication skill. It was proven based on the review research findings. In addition, the problem based learning model could change the students' previous thinking to be more creative, active in reading, exploring information, giving opinions, creative in solving mathematical problems, rational, and interest in learning mathematics that grew from within students. (3) the advantages and disadvantages of the problem based learning model based on research findings were in terms of the advantages that students' mathematical communication skill increased after learning using problem based learning model, students became more active in learning, making students to be able to work on problems that were different from the examples given, students were able to search by themselves, experienced interaction between group and exchanged the ideas scientifically, and be able to complete the problem solving process. However, there were disadvantages behind the implementation of problem-based learning model or obstacles experienced in the form of preparation for implementation, lack of understanding of teacher appreciation, too many groups, and limited time in learning.

Keywords: problem based learning model, mathematical communication