**DAFTAR ISI**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | |  | Halaman | | | |
| HALAMAN JUDUL …………………………………………. .......................... | | | | | | i | |
| HALAMAN PENGESAHAN ……………………............................................. | | | | | | ii | |
| PERNYATAAN …………………………………………. ..................... ........... | | | | | | iii | |
| PERSEMBAHAN …………………………………………. .................. ............ | | | | | | iv | |
| KATA PENGANTAR …………………………………………. ........... ............ | | | | | | v | |
| ABSTRACT …………………………………………. ..................... ....... .......... | | | | | | viii | |
| ABSTRAK …………………………………………. ..................... .... ............... | | | | | | ix | |
| DAFTAR ISI …………………………………………. ..................... ... ............. | | | | | | x | |
| DAFTAR TABEL …………………………………………. .................. ............ | | | | | | xii | |
| DAFTAR GAMBAR …………………………………………. ............. ............ | | | | | | xiv | |
| **BAB I** | | **PENDAHULUAN** ..................... ..................... ............................ .... | | | | 1 |
|  | | 1. Latar Belakang ……………………………... .............. ............... | | | | 1 |
|  | | 1. Rumusan Masalah ……………………………... ............ ............ | | | | 9 |
|  | | 1. Tujuan Penelitian ……………………………... .......... ................ | | | | 9 |
|  | | 1. Hipotesis .................................... ..................... ............... ............. | | | | 10 |
|  | | 1. Kegunaan Penelitian ……………………………... ...... ............... | | | | 11 |
|  | | 1. Definisi dan Istilah Operasional ………………………... ............ | | | | 12 |
| **BAB II** | | **KAJIAN PUSTAKA** …………………………………… ................ | | | | 14 |
|  |  | A. Bukti dan Pembuktian Matematis ……... ..................... .... ........... | | | | 14 |
|  |  | 1. Pembuktian Langsung ..... ..................... ................ ............... | | | | 15 |
|  |  | 1. Pembuktian Kontrapositif .... ..................... ........... ................ | | | | 19 |
|  |  | 1. Pembuktian dengan Kontradiksi ... ..................... ... .... .......... | | | | 21 |
|  |  | B. Menulis Jurnal Matematika ………. ..................... ............... ....... | | | | 26 |
|  |  | 1. Menulis untuk Belajar Matematika ..................... ... .............. | | | | 27 |
|  |  | 1. Menulis Bukti Matematika .... ..................... ............. ............ | | | | 28 |
|  |  | 1. Contoh Jurnal Matematika dan Pembuktian Matematis ......... | | | | 29 |
|  |  | C. Pembelajaran Matematika dengan Pendekatan Progresif .............. | | | | 37 |
|  |  | D. Keterkaitan antara Pembelajaran Progresif dengan Peningkatan Kemampuan Pembuktian dan Penulisan Jurnal Matematika ........ | | | | 41 |
| **BAB III** | | **METODE PENELITIAN** ..................... ..................... ........ ........... | | | | 45 |
|  |  | A. Desain Penelitian …………………………… ..................... ........ | | | | 45 |
|  |  | B. Subjek Penelitian …………………….. ..................... ......... ........ | | | | 46 |
|  |  | C. Instrumen Penelitian dan Pengembangannya ……………..... ...... | | | | 47 |
|  |  | 1. Tes KTM dan KBM, Perangkat Pembelajaran dan Validasinya ........................................ .................................... | | | | 47 |
|  |  | 1. Lembar Observasi Kegiatan Mahasiswa dan Dosen ... .......... | | | | 52 |
|  |  | 1. Lembar Kerja Mahasiswa ..... ..................... ............... ........... | | | | 53 |
|  |  | 1. Prosedur Pelaksanaan Penelitian ... ..................... ...... ........... | | | | 56 |
|  |  | 1. Teknik Analisis Data ..................... .............................. ......... | | | | 56 |
| **BAB IV** | | **HASIL PENELITIAN DAN PEMBAHASAN** ..................... .... .... | | | | 60 |
|  |  | A. Hasil Penelitian ... ..................... ..................... ..................... ......... | | | | 62 |
|  |  | 1. Deskripsi Data Pengetahuan Awal Matematika (PAM) ........... | | | | 62 |
|  |  | 1. Deskripsi Peningkatan KTM berdasarkan Perlakuan .... .......... | | | | 64 |
|  |  | 1. Analisis Dampak Perlakuan PP dan PK terhadap KTM ... ....... | | | | 70 |
|  |  | 1. Analisis Dampak Perlakuan PP dan PK terhadap KBM ............ | | | | 76 |
|  |  | 1. Analisis Dampak Perlakuan PP dan PK terhadap Peningkatan KTM ... ..................... ..................... ........ ...... ....................... | | | | 82 |
|  |  | 1. Analisis Dampak Perlakuan PP dan PK terhadap Peningkatan KBM ... ..................... ..................... ..... ..................... ........... | | | | 89 |
|  |  | 1. Analisis Dampak PAM/IPK terhadap Peningkatan KBM ....... | | | | 92 |
|  |  | 1. Analisis Dampak PP terhadap Peningkatan KBM berdasarkan Kategori PAM/IPK Mahasiswa ... .......... .................................. | | | | 96 |
|  |  | 1. Interaksi antara Pembelajaran dengan Kategori PAM/IPK dalam KTM dan Peningkatannya ... ..................... ...... ........... | | | | 97 |
|  |  | 1. Interaksi antara Pembelajaran dengan Kategori PAM/IPK dalam KBM dan Peningkatannya ... ........... ............................. | | | | 99 |
|  |  | B. Pembahasan Hasil Penelitian ……... ..................... ............... ..... | | | 102 | |
|  |  | 1. Kegiatan Pembelajaran dengan Pendekatan Progresif ... ..... | | | 102 | |
|  |  | 1. Kemampuan Penulisan Jurnal Matematika dan Peningkatannya .................................................................... | | | 106 | |
|  |  | 1. Kemampuan Pembuktian Matematis dan Peningkatannya .. | | | 108 | |
|  |  | 1. Interaksi antara PAM/IPK dan Perlakuan dalam Peningkatan KTM ... ..................... ..................... ........... .... | | | 111 | |
|  |  | 1. Interaksi antara PAM/IPK dan Perlakuan dalam Peningkatan KBM ... ..................... ..................... ........ ...... | | | 114 | |
| **BAB V** | | **KESIMPULAN, IMPLIKASI, DAN REKOMENDASI** ........ .... | | | 117 | |
|  |  | A. Kesimpulan ……………………………………….. ..... ............. | | | 117 | |
|  |  | B. Implikasi ……………………………………….. ........ .............. | | | 118 | |
|  |  | C. Rekomendasi ………………………………………........ ......... | | | 119 | |
| **DAFTAR PUSTAKA** ..................... ..................... ..................... ..................... | | | | | 120 | |
| **LAMPIRAN** ..................... ..................... ..................... ..................... .............. | | | | | 130 | |
| **Riwayat Hidup** ...................................................................................... ........... | | | | | 284 | |