

ABSTRAK

Putri Ayu Wilandari. 2021. “Pengembangan Penuntun Praktikum Berbasis Pendekatan Inkuiri Terbimbing Disertai *Vee Map* untuk Peserta Didik Kelas X SMAN 1 Ranah Pesisir”. Tesis. Program Pascasarjana Universitas Negeri Padang.

Berdasarkan hasil investigasi awal yang dilakukan dengan angket dan mewawancarai guru, diketahui bahwa dalam kegiatan pembelajaran biologi belum tersedia dan adanya penuntun praktikum yang tersusun sistematis. Diketahui bahwa penuntun praktikum yang digunakan peserta didik di sekolah hanya menggunakan LKS yang berisikan teori dan tidak memiliki lembar kegiatan praktikum. Pada kegiatan praktikum peserta didik masih cenderung pasif. Oleh karena itu, dapat disimpulkan bahwa peserta didik membutuhkan penuntun praktikum yang sesuai dengan kebutuhan belajarnya, mudah dipahami dan mampu membimbing peserta didik dalam memahami prosedur kegiatan praktikum. Penelitian ini bertujuan untuk menghasilkan penuntun praktikum biologi berbasis pendekatan inkuiri terbimbing disertai *vee map* yang valid, praktis, dan efektif.

Penelitian ini menggunakan model Plomp yang terdiri dari tiga tahap, yaitu investigasi awal, pengembangan dan pembuatan prototipe, dan penilaian. Subjek penelitian ialah peserta didik kelas X MIA SMAN 1 Ranah Pesisir pada mata pelajaran biologi semester I tahun ajaran 2020/2021.

Hasil penelitian menunjukkan bahwa penuntun praktikum biologi yang dikembangkan, menurut *expert review* telah memenuhi kriteria didaktik, konstruk, dan teknis dengan kategori sangat valid. Hasil penilaian praktikalitas oleh guru dan peserta didik diperoleh nilai sangat praktis, karena telah memenuhi kriteria kemudahan dalam penggunaannya. Hasil uji efektifitas menunjukkan bahwa efektif pada kompetensi afektif, psikomotor, dan kognitif peserta didik. Berdasarkan hal tersebut dapat disimpulkan bahwa penuntun praktikum biologi berbasis pendekatan inkuiri terbimbing disertai *vee map* yang dikembangkan untuk peserta didik kelas X SMA semester I dinyatakan valid, praktis, dan efektif.

ABSTRACT

Putri Ayu Wilandari. 2021. "Development of Biology Practicum Guide Based on Guided Inquiry Approach Based with Vee Map for Grade X SMAN 1 Ranah Pesisir Students". Thesis. Postgraduated Program in Universitas Negeri Padang.

Based on the results of the initial investigation conducted by using questionnaires and interviewing teachers, it is known that biology learning activities are not yet available and there is a practicum guide at school. It is known that the practicum guide used by students at school is only a worksheet that contains theory and does not have a practicum activity sheet. In practicum activities, students still tend to be passive. Therefore, it can be concluded that students need a practicum guide that is in accordance with their learning needs, easy to understand and able to guide students in understanding the procedures for practicum activities. This study aims to produce a biology practicum guide based on a guided inquiry approach accompanied by a valid, practical, and effective vee map.

This research uses the Plomp model which consists of three stages, namely the initial investigation, development and prototyping, and assessment. The research subjects were students of class X MIA SMAN 1 Ranah Pesisir in the first semester of biology subjects for the 2020/2021 academic year.

The results showed that the developed biology practicum guide, according to the expert review, had met the didactic, construct, and technical criteria with a very valid category. The results of the practicality assessment by teachers and students obtained very practical values, because they have met the criteria for ease of use. The results of the effectiveness test showed that it was effective on the affective, psychomotor, and cognitive competencies of students. Based on this, it can be concluded that the biology practicum guide based on a guided inquiry approach accompanied by a vee map developed for class X senior high school students in the first semester is valid, practical, and effective.