

## ABSTRAK

Yuliani, Nesya Elvira. 2023. Pengembangan Video Pembelajaran Biologi Bermuatan *Mind-Mapping* pada Materi Invertebrata. Skripsi. Tanjung Pinang: Jurusan Pendidikan Biologi, Fakultas Keguruan dan Ilmu Pendidikan. Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Elfa Oprasmani, S.Pd, M.Pd., Pembimbing II: Assist. Prof. Adam Fernando, S.Pd, M.Pd.

**Kata Kunci: Video Pembelajaran, Mind Mapping, Invertebrata.**

Penelitian ini bertujuan untuk menghasilkan media video pembelajaran biologi bermuatan Mind Mapping pada materi invertebrata untuk pembelajaran IPA Kelas X SMK /SMA yang valid, efektif, serta praktis. Penelitian ini ialah jenis penelitian serta pengembangan dengan memakai model pengembangan 4D. Penelitian ini dilaksanakan lewat 4 tahap ialah: *Define, Design, Develop*, serta *Disseminate*. Berdasarkan hasil penelitian dan pengembangan video bermuatan *Mind-mapping* pada materi invertebrata kelas X SMA/SMK diperoleh rata-rata dengan hasil validasi ahli media sejumlah 92,5% dikategori “sangat valid” serta hasil validasi oleh ahli materi menghasilkan rata-rata 92,18% dikategori “sangat valid”. Hasil uji praktikalitas oleh pendidik menghasilkan rata-rata sejumlah 95,8% dikategori “sangat praktis”, serta uji praktikalitas peserta didik memperoleh rata-rata sejumlah 92,6% dengan kategori “sangat praktis”. Hasil penilaian efektivitas lewat perhitungan *N-Gain* score sejumlah 0,76 pada penilaian kognitif dengan kriteria peningkatan “Tinggi”. Dari hasil yang didapat bisa disimpulkan, pengembangan video bermuatan *Mind-mapping* pada materi invertebrata kelas X SMA/SMK dinyatakan valid, praktis serta efektif sehingga dapat digunakan dalam proses pembelajaran hingga bisa meningkatkan motivasi belajar siswa.

## **ABSTRACT**

Yuliani, Nesya Elvira. 2023. *Development of Mind-Mapping Biology Learning Videos on Invertebrate Material*. Thesis. Tanjung Pinang: Biology Education Study Program, Faculty of Teacher Training and Education. University of Maritim Raja Ali Haji. Advisor: Assist. Prof. Elfa Oprasmani, S.Pd, M.Pd., Co-Advisor: Assist. Prof. Adam Fernando, S.Pd, M.Pd.

**Keywords: Learning Videos, Mind Mapping, Invertebrates.**

*This study aimed to produce biology learning video media with Mind Mapping on invertebrate material for science learning Class X SMK / SMA that is valid, effective, and practical. This research was a Research and Development by adapting from the 4D model. This research was conducted in 4 stages, namely: 1) Defining, 2) Designing, 3) Development, and 4) Disseminate. Biology learning media based on Mind-mapping videos on invertebrate material for class X SMA/SMK, an average of 92.5% of media expert validation results in the "very valid" category, validation results by material experts produce an average of 92.18 % in the "very valid" category. Practicality test results by educators produce an average of 95.8% in the "very practical" category, and students' practicality tests obtain an average of 92.6% in the "very practical" category. The results of the effectiveness assessment by calculating the N-Gain score were 0.76 in the cognitive assessment with the "High" improvement criteria. From the results obtained, it can be concluded that the development of a video containing Mind-mapping on invertebrate material for class X SMA/SMK is declared valid, practical and effective for use in the learning process so that it can increase student learning motivation.*