

## ABSTRAK

**Irene, NIM 4183141033 (2022). Pengembangan Multimedia Pembelajaran Mandiri Berbasis *Ispring Suite 10* ri Pada Materi Sistem Pernapasan Kelas XI-MIA di SMA di Swasta Methodist 8 Medan.**

Penelitian ini bertujuan untuk mengetahui tingkat kelayakan Multimedia Pembelajaran yang dikembangkan berbasis *ispring suite 10* sebagai sumber belajar mandiri pada materi sistem pernapasan kelas XI SMA. Media Pembelajaran yang dikembangkan berdasarkan validasi ahli yakni ahli materi, ahli media dan berdasarkan uji lapangan untuk memperoleh respon dan penilaian oleh guru bidang studi, dan siswa. Penelitian ini menggunakan desain pengembangan instruksional model 4-D oleh Thiagarajan yang meliputi 4 tahapan yakni; *define* (pendefinisian), *design* (perancangan), *develop* (pengembangan), dan *disseminate* (penyebaran) yang dibatasi pada uji lapangan terbatas dan penyebaran terbatas untuk melihat hasil ketuntasan belajar klasikal siswa. Persiapan penelitian dimulai pada bulan Agustus 2021 dan dilaksanakan pada bulan Oktober 2021 – Juli 2022. Uji coba produk dilakukan di SMA Swasta Methodist 8 Medan. Hasil penelitian menunjukkan bahwa Multimedia Pembelajaran yang telah dikembangkan layak digunakan sebagai sumber belajar mandiri siswa karena memenuhi kriteria kelayakan. Berdasarkan validasi ahli diperoleh mean skor 4,40 atau 88% (sangat layak) dari ahli materi. Sedangkan dari ahli media diperoleh skor mean skor 4,62 atau 92,4% (sangat layak). Berdasarkan hasil uji lapangan terhadap respon guru dan siswa diperoleh mean skor 87,05 (sangat layak) dari hasil penilaian guru bidang studi dan mean skor 90,62 (sangat layak) dari hasil penilaian siswa. Ketuntasan belajar klasikal siswa pada penyebaran terbatas mendapat persentase 86,15% (sangat layak).

**Kata kunci:** Pengembangan, Multimedia Pembelajaran, Sistem Pernapasan.

## ABSTRACT

**Irene, NIM 4183141033 (2022). Development of Independent Learning Multimedia Based on *Ispring Suite 10* in the Materials of the Respiratory System Class XI -MIA in Methodist 8 Private High School Medan.**

This study aims to determine the feasibility level of the Learning Multimedia that was developed based on the *ispring suite 10* as a source of independent learning on the respiratory system material for class XI SMA. Learning Media developed based on expert validation, namely material experts, media experts and based on field tests to obtain responses and assessments by subject teachers, and students. This study uses a 4-D model of instructional development design by Thiagarajan which includes 4 stages, namely; define, design, develop, and disseminate which are limited to limited field tests and limited distribution to see the results of students' classical learning mastery. Research preparation begins in August 2021 and will be carried out in October 2021 – July 2022. The product trial was conducted at the Methodist 8 Medan Private High School. The results of the study indicate that the Learning Multimedia that has been developed is feasible to be used as a source of student self-study because it meets the eligibility criteria. Based on expert validation, the mean score was 4.40 or 88% (very feasible) from material experts. Meanwhile, media experts obtained a mean score of 4.62 or 92.4% (very feasible). Based on the results of field tests on teacher and student responses, it was obtained a mean score of 87.05 (very feasible) from the results of the teacher's assessment of the field of study and a mean score of 90.62 (very decent) from the results of student assessments. Students' classical learning completeness in limited distribution gets a percentage of 86.15% (very decent).

**Keywords:** Development, Learning Multimedia, Respiratory System.