PENGARUH MODEL *GUIDED DISCOVERY LEARNING* BERBANTUAN LECTORA INSPIRE TERHADAP KETERAMPILAN BERPIKIR KRITIS DAN *HABITS OF MIND* SISWA SMA

TESIS

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PERNYATAAN

Dengan ini saya menyatakan bahwa tesis dengan judul "Pengaruh Model *Guided Discovery Learning* Berbantuan Lectora Inspire Terhadap Keterampilan Berpikir Kritis dan *Habits of Mind* Siswa SMA" ini beserta seluruh isinya adalah benar-benar karya saya sendiri. Saya tidak melakukan penjiplakan atau pengutipan dengan cara yang tidak sesuai dengan etika ilmu yang berlaku dalam masyarakat keilmuan. Atas pernyataan ini, saya siap menanggung resiko/sanksi apabila di kemudian hari ditemukan adanya pelanggaran etika keilmuan atau ada klaim dari pihak lain terhadap keaslian karya saya ini.

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ABSTRAK

Gelombang cahaya merupakan salah satu topik yang memerlukan keterampilan berpikir tingkat tinggi seperti berpikir kritis dikarenakan konsep materi yang abstrak dan dipadukan dengan kemampuan matematis. Namun, pentingnya topik ini belum selaras dengan tingginya keterampilan berpikir kritis yang dimiliki siswa SMA terhadap topik terkait. Keterampilan berpikir kritis siswa SMA seringkali dipengaruhi oleh profil *Habits of Mind* (HoM) yang dapat membantu belajar siswa. Oleh karena itu, penelitian ini bertujuan untuk mengetahui efektivitas penerapan model pembelajaran *guided discovery learning* (GDL) berbantuan media lectora inspire dalam meningkatkan keterampilan berpikir kritis pada topik gelombang cahaya dan profil HoM siswa SMA. Metode yang digunakan adalah *mixed-methods* dengan desain *embedded experimental* model *pre-post control group design*. Sampel penelitian terdiri dari 31 siswa di kelas kontrol dan 32 siswa di kelas eksperimen dengan rentang usia 16-19 tahun. Penelitian ini menggunakan instrumen utama berupa tes berpikir kritis dan penilaian diri HoM berskala Likert 4 poin. Penelitian ini memberikan hasil pada siswa kontrol memiliki rerata *N-Gain* sebesar 0,25 dengan kategori rendah, sedangkan kelas eksperimen memperoleh rerata *N-Gain* sebesar 0,36 dengan kategori sedang. Efektivitas penerapan model GDL berbantuan media lectora inspire dalam meningkatkan keterampilan berpikir kritis siswa dilihat melalui *independent sample t-test* sebesar 3,914 dan *effect size* dengan nilai Cohen's d sebesar 1,005. Hasil tersebut menunjukkan efektivitas yang sangat tinggi dalam meningkatkan keterampilan berpikir kritis siswa. Secara keseluruhan, siswa kelas eksperimen memiliki profil *habits of mind* positif sebesar 57,55% dan negatif sebesar 42,45%. Hasil ini menunjukkan siswa cenderung belum memiliki profil *habits of mind* yang baik untuk mendukung belajar siswa.

Kata kunci: Lectora inspire, keterampilan berpikir kritis, *Habits of Mind* (HoM), gelombang cahaya, *mixed methods*.

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THE EFFECT OF THE GUIDED DISCOVERY LEARNING MODEL ASSISSTED BY LECTORA INSPIRE ON CRITICAL THINKING SKILLS AND HABITS OF MIND OF HIGH SCHOOL STUDENTS

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ABSTRACT

Light waves are a topic requiring high-level thinking skills, such as critical thinking, due to the abstract concept of the material combined with mathematical abilities. However, the importance of this topic is not in line with the high level of critical thinking skills possessed by high school students on related topics. High school students' critical thinking skills are often influenced by the Habits of Mind (HoM) profile that can help students learn. Therefore, this study aims to determine the effectiveness of implementing the guided discovery learning (GDL) learning model assisted by lectora inspire media in improving critical thinking skills on the topic of light waves and the HoM profile of high school students. The method used is mixed methods with an embedded experimental model pre-post control group design. The research sample consisted of 31 students in the control class and 32 students in the experimental class aged 16-19 years. This study uses the main instrument in the form of a critical thinking test and a 4-point Likert scale HoM self-assessment. This study provides results that control students have an average N-Gain of 0.25 with a low category, while the experimental class obtained an average N-Gain of 0.36 with a moderate category. The effectiveness of implementing the GDL model assisted by Lectora Inspire media in improving students' critical thinking skills is seen through the independent sample t-test of 3.914 and the effect size with a Cohen's d value of 1.005. These results indicate very high effectiveness in improving students' critical thinking skills. Overall, students in the experimental class have a positive habits of mind profile of 57.55% and a negative one of 42.45%. These results indicate that students tend not to have a good habits of mind profile to support student learning.

Keywords: Lectora inspire, critical thinking skills, Habits of Mind (HoM), light waves, mixed methods.

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DAFTAR ISI

PERNYATAAN iii
ABSTRAK iv
ABSTRACT v
DAFTAR TABEL viii
DAFTAR GAMBAR x
BAB I 1
1.1 Latar Belakang 1
1.2 Rumusan Masalah 9
1.3 Tujuan Penelitian 10
1.4 Hipotesis Penelitian 10
1.5 Definisi Operasional 10
1.5.1 Peningkatan Keterampilan Berpikir Kritis Siswa 10
1.5.2 Efektivitas Peningkatan Keterampilan Berpikir Kritis 11
1.5.3 Pengungkapan Profil *Habits of Mind* 12
1.6 Manfaat Penelitian 12
1.6.1 Manfaat Praktis 13
1.6.2 Manfaat Teoritis 13
1.7 Struktur Organisasi Tesis 13
BAB II 15
2.1 *Habits of Mind* (HoM) 15
2.1.1 *Habits of Mind Physicist* 17
2.2 *Guided Discovery Learning* (GDL) 18
2.3 Keterampilan Berpikir Kritis 18
2.4 Media Lectora Inspire 23
2.5 Konsep Gelombang Cahaya 23
2.5.1 Gelombang Cahaya 23
2.5.2 Interferensi Gelombang Cahaya 24
2.5.3 Difraksi Gelombang Cahaya 28
2.5.4 Polarisasi Gelombang Cahaya 30
2.6 Kerangka Berpikir 32
BAB III 34
3.1 Metode dan Desain 34
3.2 Populasi dan Sampel 36

Raldy Aditya, 2024
PENGARUH MODEL GUIDED DISCOVERY LEARNING BERBANTUAN LECTORA INSPIRE TERHADAP KETERAMPILAN BERPIKIR KRITIS DAN HABITS OF MIND SISWA SMA
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3.3 Instrumen Penelitian 36
3.3.1 Instrumen Tes Keterampilan Berpikir Kritis Topik Gelombang Cahaya 37
3.3.2 Instrumen Kuesioner *Habits of Mind* 49
3.3.3 Lembar Observasi Keterlaksanaan Pembelajaran 62
3.3.4 Lembar Petunjuk Wawancara tentang *Habits of Mind* Siswa 63
3.3.5 Validitas Media Lectora Inspire 63
3.4 Prosedur Penelitian 73
3.4.1 Tahap Awal 74
3.4.2 Tahap Pelaksanaan 75
3.4.3 Tahap Akhir 76
3.5 Analisis Data 76
3.5.1 Analisis Peningkatan Keterampilan Berpikir Kritis 76
3.5.2 Analisis Efektivitas Peningkatan Keterampilan Berpikir Kritis 80
3.5.3 Analisis Pengungkapan Profil *Habits of Mind* 86
BAB IV 88
4.1 Peningkatan Keterampilan Berpikir Kritis Siswa 88
4.1.1 Sub Topik Interferensi Gelombang Cahaya 88
4.1.2 Sub Topik Difraksi Gelombang Cahaya 90
4.1.3 Sub Topik Polarisasi Gelombang Cahaya 92
4.2 Efektivitas Peningkatan Keterampilan Berpikir Kritis 93
4.2.1 Uji Normalitas 94
4.2.2 Uji Homogenitas 95
4.2.3 Uji Beda 95
4.2.4 Uji Lanjutan: *Effect Size* 97
4.3 Pengungkapan *Habits of Mind* 97
BAB V 102
5.1 Simpulan 102
5.2 Implikasi 103
5.3 Rekomendasi 104

Raldy Aditya, 2024
PENGARUH MODEL GUIDED DISCOVERY LEARNING BERBANTUAN LECTORA INSPIRE TERHADAP KETERAMPILAN BERPIKIR KRITIS DAN HABITS OF MIND SISWA SMA
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DAFTAR TABEL

Tabel 1.1 Uraian Konsep pada Setiap Soal 2
Tabel 1.2 Karakteristik Model-Model Pembelajaran 5
Tabel 2.1 Kategori *Habits of Mind* (Dufresne, 2000) 16
Tabel 2.2 Sintaks *discovery learning* dan *guided discovery learning* 17
Tabel 2.3 Indikator keterampilan berpikir kritis menurut Tiruneh (2016) 19
Tabel 2.4 Hubungan (Matriks) Sintaks Pembelajaran Model *Guided Discovery Learning* (GDL) Berbantuan Media Lectora Inspire, Keterampilan Berpikir Kritis, dan *Habits of Mind*..... 21
Tabel 3.1. Penjabaran Instrumen dalam Penelitian Tesis 36
Tabel 3.2 Sebaran kisi-kisi konstruksi soal CT-LiWa 38
Tabel 3.3 Daftar simbol untuk uji validitas CT-LiWa 41
Tabel 3.4 Petunjuk Interpretasi *raw variance explained by measures* 43
Tabel 3.5 Hasil uji *item dimensionality* CT-LiWa 44
Tabel 3.6 Petunjuk Interpretasi *raw variance explained by measures*..... 45
Tabel 3.7 Interpretasi dari MNSQ, ZSTD, dan PTMEASUR-AL CORR 45
Tabel 3.8 Hasil Analisis Kesesuaian Butir pada Soal CT-LiWa 45
Tabel 3.9 Kriteria Tingkat Kesukaran Butir CT-LiWa 47
Tabel 3.10 Hasil Analisis Tingkat Kesukaran Butir Soal CT-LiWa 47
Tabel 3.11 Syarat nilai *person reliability* dan *item reliability* 48
Tabel 3.12 Syarat nilai *cronbach alpha* (α) 48
Tabel 3.13 Hasil analisis reliabilitas CT-LiWa 49
Tabel 3.14 Sebaran Karakteristik Butir Pernyataan Soal CT-LiWa 49
Tabel 3.15 Sebaran kisi-kisi konstruksi butir pernyataan SAHOM 52
Tabel 3.16 Daftar simbol untuk uji validitas SAHOM 54
Tabel 3.17 Hasil uji *item dimensionality* SAHOM 56
Tabel 3.18 Hasil analisis kesesuaian butir pada SAHOM 57
Tabel 3.19 Kriteria Tingkat Kesukaran Butir CT-LiWa 59
Tabel 3.20 Hasil analisis tingkat kesukaran kuesioner SAHOM 60
Tabel 3.21 Hasil analisis reliabilitas SAHOM 61
Tabel 3.22 Sebaran Karakteristik Butir Pernyataan Kuesioner SAHOM 62
Tabel 3.23 Interpretasi Keterlaksanaan Pembelajaran 62

Raldy Aditya, 2024
PENGARUH MODEL GUIDED DISCOVERY LEARNING BERBANTUAN LECTORA INSPIRE TERHADAP KETERAMPILAN BERPIKIR KRITIS DAN HABITS OF MIND SISWA SMA
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Tabel 3.24 Daftar Kode untuk Uji Validitas Konten Media Lectora Inspire 65
Tabel 3.25 Daftar Kode untuk Uji Validitas Konstruk Media Lectora Inspire.. 68
Tabel 3.26 Daftar Kode untuk Uji Kepraktisan Media Lectora Inspire..... 70
Tabel 3.27 Persentase Rata-Rata Setiap Indikator Kepraktisan Media Lectora Inspire..... 72
Tabel 3.28 Rubrik Skor Keterampilan Berpikir Kritis Siswa Menggunakan CT-LiWa..... 77
Tabel 3.29 Persamaan *N-gain* $\langle g \rangle$ 80
Tabel 3.30 Interpretasi Hasil Uji *Effect Size* 86
Tabel 3.31 Rubrik Penskoran SAHOM 87
Tabel 4.1 Rerata *N-gain* Siswa Kelas Kontrol dan Eksperimen pada Sub Topik IGC 89
Tabel 4.2 Rerata *N-gain* Siswa Kelas Kontrol dan Eksperimen pada Sub Topik DGC 91
Tabel 4.3 Rerata *N-gain* Siswa Kelas Kontrol dan Eksperimen pada Sub Topik PGC 93
Tabel 4.4. Rerata Profil *Habits of Mind* Kelas Eksperimen 99
Tabel 4.5. Contoh Butir SAHOM yang Sangat Mudah disepakati oleh Siswa Kelas Eksperimen..... 101
Tabel 4.6. Contoh Butir SAHOM yang Sangat Mudah disepakati oleh Siswa Kelas Eksperimen..... 101

Raldy Aditya, 2024
PENGARUH MODEL GUIDED DISCOVERY LEARNING BERBANTUAN LECTORA INSPIRE TERHADAP KETERAMPILAN BERPIKIR KRITIS DAN HABITS OF MIND SISWA SMA
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DAFTAR GAMBAR

Gambar 1.1 *Baseline* Profil Keterampilan Berpikir Kritis Siswa pada Topik Gelombang Cahaya 2
Gambar 1.2 *Baseline* Profil *Habits of Mind* Siswa SMA di Lapangan 4
Gambar 2.1 Indikator Kebiasaan Berpikir (Costa & Kallick, 2000) 17
Gambar 2.2 Empat tingkatan capaian pendidikan 17
Gambar 2.3 Spektrum Elektromagnetik (Giancoli, 2004) 24
Gambar 2.4 Skema Pola Interferensi Celah Ganda Young (Serway & Jewett, 2018) 25
Gambar 2.5 Pola Interferensi Celah Ganda Young (Giancoli, 2004) 25
Gambar 2.6 Interferensi pada Celah Tipis (Serway & Jewett, 2018)..... 27
Gambar 2.7 Cincin Newton. (a) berkas cahaya pada lapisan tipis, (b) Foto pola interferensi menggunakan cahaya putih (Giancoli, 2004) 28
Gambar 2.8 Skema Difraksi Celah Tunggal (Giancoli, 2004) 28
Gambar 2.9 Skema Kisi Difraksi (Giancoli, 2004) 30
Gambar 2.10 Polarisasi Akibat Penyerapan (Giancoli, 2004)..... 31
Gambar 2.11 Polarisasi Akibat Pemantulan (Giancoli, 2004)..... 31
Gambar 2.12. Diagram Kerangka Berpikir 33
Gambar 3.1 *Mixed Method* dengan *sequential embedded design* 34
Gambar 3.2 Alur pengembangan instrumen CT-LiWa materi gelombang cahaya 38
Gambar 3.3 Contoh Butir Soal CT-LiWa bentuk uraian..... 40
Gambar 3.4 Hasil Validasi Konten dari CT-LiWa 42
Gambar 3.5 Alur Pengembangan Instrumen SAHOM 50
Gambar 3.6 Contoh Butir Pernyataan pada Kuesioner SAHOM 53
Gambar 3.7 Hasil Validasi Konten dari SAHOM 54
Gambar 3.8 Hasil Analisis Varians Pengukuran Validitas Konten Media Lectora Inspire 65
Gambar 3.9 Hasil Uji Validitas Konten Media Lectora Inspire 66
Gambar 3.10 Hasil Analisis Varians Pengukuran Validitas Konstruk Media Lectora Inspire 68
Gambar 3.11 Hasil Uji Validitas Konstruk Media Lectora Inspire 69

Raldy Aditya, 2024
PENGARUH MODEL GUIDED DISCOVERY LEARNING BERBANTUAN LECTORA INSPIRE TERHADAP KETERAMPILAN BERPIKIR KRITIS DAN HABITS OF MIND SISWA SMA
Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

Gambar 3.12 Hasil Analisis Varians Pengukuran Uji Coba Media Lectora Inspire 70
Gambar 3.13 Hasil Uji Coba Media Lectora Inspire 71
Gambar 3.14 Prosedur penelitian menggunakan *mixed method* dengan desain *sequential embedded* 73
Gambar 4.1 Perbandingan Kategori *N-Gain* pada Sub Topik IGC 91
Gambar 4.2 Perbandingan Kategori *N-Gain* pada Sub Topik DGC 92
Gambar 4.3 Perbandingan Kategori *N-Gain* pada Sub Topik PGC 94
Gambar 4.4 Hasil Uji Normalitas Data Melalui SPSS 95
Gambar 4.5 Hasil Uji Homogenitas Data Melalui SPSS 96
Gambar 4.6 Hasil Olahan Uji t melalui SPSS 97
Gambar 4.7 *Wright Map* dari Karakteristik *Habits of Mind* Siswa Kelas Eksperimen 99

Raldy Aditya, 2024
PENGARUH MODEL GUIDED DISCOVERY LEARNING BERBANTUAN LECTORA INSPIRE TERHADAP KETERAMPILAN BERPIKIR KRITIS DAN HABITS OF MIND SISWA SMA
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