DEVELOPING PHYSICS LEARNING MEDIA “READ PRO” ON BLACK BODY RADIATION FOR BILINGUAL EDUCATION IN SENIOR HIGH SCHOOL

A THESIS

By:

THERESIA ANATA

1113008001

PHYSICS EDUCATION STUDY PROGRAM
FACULTY OF TEACHER TRAINING AND EDUCATION
WIDYA MANDALA CATHOLIC UNIVERSITY SURABAYA

JULY 2012
This report entitled Developing Physics Learning Media “READ PRO” on Black Body Radiation for Bilingual Education in Senior High School prepared and submitted by Theresia Anata has been approved and accepted as part of fulfillment of requirements for Sarjana Pendidikan Degree in Physics Teaching by the following advisors:

First Advisor: Drs. I Nyoman Arcana, M.Si

Second Advisor: J.V. Djoko Wirjawan, Ph.D
APPROVAL SHEET

(2)

This thesis has been examined by the committee on oral examination on July 27th, 2012 by:

Prof. Sugimin W.W.
Chairman

J.V. Djoko Wirjawan, Ph.D
Member

Drs. I Nyoman Arcana, M.Si
Member

Drs. Tjondro Indrasutanto, M.Si
Member

Drs. G. Budijanto Untung, M.Si
Member

Herwinarsa, S.Pd, M.Si
Member

Approved by:

Dra. Agnes Santi Widiati, M.Pd
Dean of the Teacher Training and Education

J.V. Djoko Wirjawan, Ph.D
Head of the Physics Department
SURAT PERNYATAAN
PERSETUJUAN PUBLIKASI KARYA ILMIAH

Demi perkembangan Ilmu Pengetahuan, saya sebagai mahasiswa Universitas Katolik Widya Mandala Surabaya:

Nama Mahasiswa : Theresia Anata
Nomor Pokok : 1113008001
Program Studi : Pendidikan Fisika – Jurusan Pendidikan MIPA
Fakultas : Keguruan dan Ilmu Pendidikan
Perguruan Tinggi : Universitas Katolik Widya Mandala Surabaya
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Surabaya, 10 Oktober 2012
Yang menyatakan,

Theresia Anata
NRP: 1113008001
ACKNOWLEDGEMENT

First of all, the writer would like to thank to the Heavenly God who has made everything possible under His Holy Providence, by His leading and His blessing especially in the accomplishment of this report. In this opportunity, the writer would like to show her deepest gratitude and appreciation for the prestigious grant provided by I-MHERE Implementing Unit Widya Mandala Surabaya Catholic University to support this work.

The writer would also like to show her deepest gratitude to some people who helped and guided her in finishing this project. Those people are:

1. Drs I Nyoman Arcana, M.Si and J.V. Djoko Wirjawan, Ph.D, who have supported her throughout her thesis with their patience and knowledge whilst allowing her to explore various ways to find alternative solutions.

2. Dra. Agnes Santi Widiati, M.Pd as the Dean of the Teacher Training and Education Faculty.

3. J.V. Djoko Wirjawan, Ph.D and Herwinarso, S.Pd, M.Si as the Head and Secretary of the Physics Department.

4. Physics and English lecturers who are ready to help me in correcting this work, guiding the writer to finish it, and supporting the writer.

5. Agus Purnomo, the workshop technician of the Physics Department, for all support and help.
6. The writer’s parents and brother for all supports and prayers until this media have been completed.

7. My PKM (Program KreativitasMahasiswa) Team, which have helped in completing READ PRO bilingual Physics learning media.

8. All the writer’s friends that have supported the writer, especially Widya Mandala Physics’ 2008 Academic Year students.

9. All the people who cannot be mentioned one by one, without their help this report would never have been completed.

Finally, the writer realizes this report is not perfect and the writer hopes for constructive critics and suggestions for the next improvement. The writer also hopes that this report will be helpful for those who need it.

Surabaya, July 27th, 2012

The writer
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ABSTRACT

THERESIA ANATA: “Developing Physics Learning Media “READ PRO” on Black Body Radiation for Bilingual Education in Senior High School.” Advisors: Drs. I Nyoman Arcana, M.Si and J.V. DjokoWirjawan, Ph.D.

Nowadays, we enter globalization era that impacts our life in some aspects, such as: Technology, Knowledge, Education, Language, etc. English as a communication language, a lot of books are written in English, and bilingual education curriculums are some of the effects of globalization era that we have to face. There are a lot of bilingual books in the bookstore but there is rarely bilingual media in it. A need of bilingual media is the reason to do this research. READ PRO bilingual education is the answer to solve those problems. READ PRO stands for REading, Animation, Dictionary, PROnunciation. Reading contains the material or the theory, animation shows the process that we have to learn to be more understand, dictionary will help users when the users do not know the meaning of some difficult words, and pronunciation guides the users to pronounce the words well.

The research method is Research Instruction Improvement (RII). There were 120 students involved in the try out. Based on the response of the students to the questionnaire given after they completed the try out, we found that 92.42 % of the students agreed that READ PRO bilingual
Physics learning media is useful. Therefore, we may conclude that the READ PRO has been developed successfully.

Keywords: blackbody radiation, READ PRO bilingual education, media
ABSTRAK

THERESIA ANATA: “Pengembangan Media Pembelajaran Fisika “READ PRO” Pada Pokok Bahasan Radiasi Benda Hitam Untuk Pembelajaran Bilingual di Sekolah Menengah Atas”. Dibimbing oleh: Drs. I Nyoman Arcana, M.Si dan J.V. Djoko Wirjawan, Ph.D.


Metode penelitian yang digunakan adalah penelitian pengembangan. Hasil penelitian ini berupa media pembelajaran interaktif berbasis computer yang berisi penjelasan tentang radiasi benda hitam, animasi, kamus, dan pengucapannya. Uji lapangan dilakukan di SMA St. Louis 1 Surabaya, SMAN 6 Surabaya, dan SMAK Santo Carolus Surabaya. Berdasarkan hasil angket diperoleh 92,42% siswa menyatakan bahwa media ini baik dan bermanfaat.

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Kata kunci: radiasi benda hitam, READ PRO, media pembelajaran fisika bilingual