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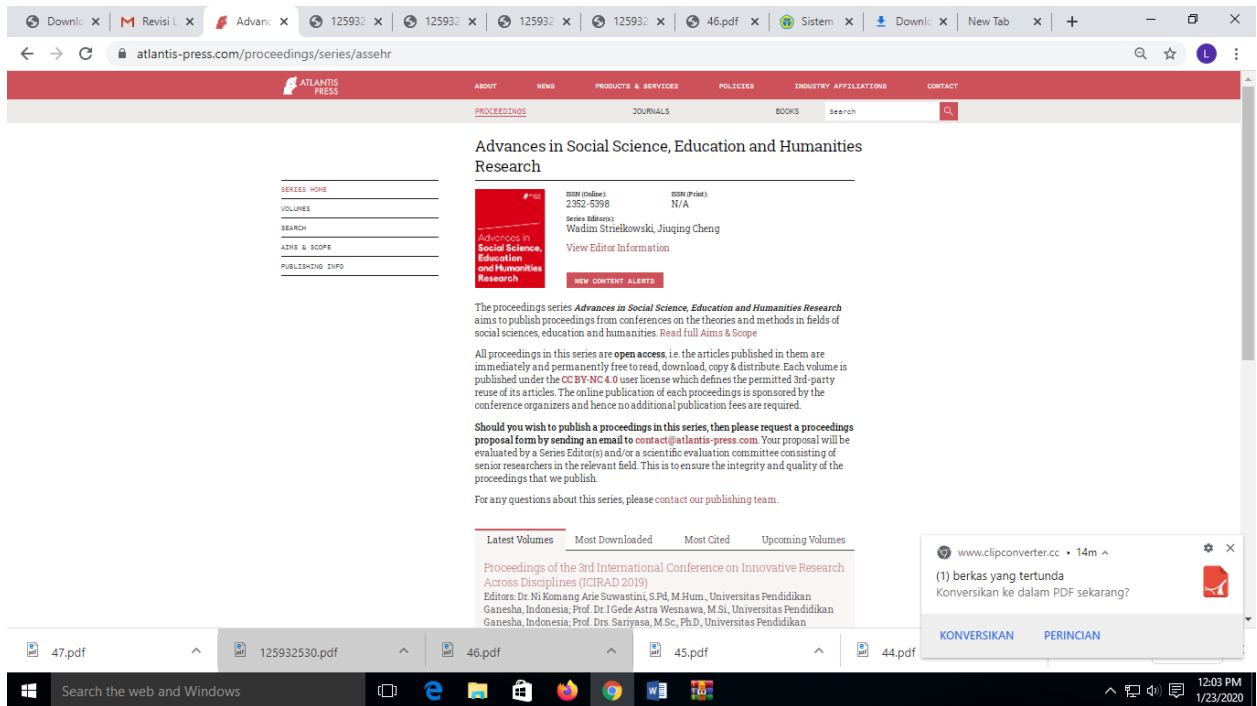
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[Developing Coloring Books to Enhance Reading Comprehension Competence and Creativity](#)

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Sukarman

This research aims to contribute several ideas towards the implementation of the 2013 curriculum for elementary school teachers in Palembang. This descriptive qualitative research used interviews and questionnaires as data collection techniques. The results of the 2013 Curriculum implementation evaluation...

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[Image Patch Extraction in Text Area of Balinese Palm Leaf Manuscripts with Gabor Filters](#)

Made Windu Antara Kesiman, Gede Aditra Pradnyana

In an effort to build a word spotting and indexation system for the Balinese palm leaf manuscripts, text area detection and image patch extraction in the text area must be done effectively. However, there is no space between words in writing with Balinese scripts. This paper aimed at describing a complete...

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[Diversity Genera of Coliforms Bacteria in Buyan Lake](#)

I W S Warpala, N L P M Widiyanti, I A Suryanti, I W S Wibawa

The cleanliness of the water is the main requirement for the health.

Microbiological parameter is one of the parameters that should get the attention because its impact is dangerous, that can cause infectious diseases. Most coliforms bacteria do not cause disease, but its presence can indicate the presence...

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[Turnover Intention as an Impact of Job Insecurity Among Bank Employees](#)

Ega Leovani, Anselmus Inharjano

The purpose of this research was to investigate the influence of job insecurity on the turnover intention among bank employees in Palembang. This descriptive qualitative study employed job insecurity as the independent variable and turnover intention as the dependent variable. The data collection technique...

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[Playing with e-CALF: "Regulate My Own Learning"](#)

Ni Wayan Surya Mahayanti, G.A.P. Suprianti, Ida Ayu Made Istri utami, I Putu Indra Kusuma

e-CALF facilitates digital natives to learn in their way. The researcher of this study used descriptive qualitative design to investigate the implementation of e-CALF in the school setting by finding six students' experiences, challenges, and responses in playing the game. It also found out how the implementation...

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[Analysis of Students' Affective Character in Microbiology Class Through Mini Research Based on Learning Model](#)

Hasruddin, Aryeni, Dirga Purnama, Evi Lestari

Microbiology materials are taught with mini-research patterns, namely observation of bacterial colonies, fungal characteristics, bacterial staining, bacterial biochemical tests, and bacterial identification. The purpose of this study is to describe the character of students related to the affective abilities...

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[Printed Media Versus Digital Media: Which One is More Effective?](#)

Ni Made Ratminingsih, I Gede Budasi

Media plays an important role in the teaching and learning process. It is a tool that contains materials that students learn. This paper aimed at describing the result of experimental research which investigate the effect of two different media, printed and digital, used to teach literacy particularly...

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[Mechanical Properties of Natural Materials from Kalimantan as Substitute Material for Reinforcement Buildings](#)

Andromeda Dwi Laksono, Ilham Prabu Seno, Rifqi Aulia Tanjung, Basyaruddin

Kalimantan has abundant natural resources, including wood. The physical properties of wood have varying strength and flexibility and could replace concrete reinforcement steel. In this study, the mechanical properties and sound insulation of one of Kalimantan's natural fiber combined with polyester matrix...

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[Teacher and Students' Perception on Using Kahoot! for English Learning](#)

Kadek Eva Krishna Adnyani, I Wayan Adnyana, Ni Nyoman Murniasih

The purpose of this research was to determine (1) Teacher's perception on using Kahoot! for English learning; (2) Students' perceptions on using Kahoot! for English learning; and (3) Constraints encountered while using Kahoot! for English learning. This is a quantitative descriptive research. The research...

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[Students' Perceptions of the Utilization of ICT in English Learning: Way or Barrier?](#)

Ira Irzawati, Anastasia Ronauli Hasibuan

This study aimed to describe the students' perceptions of the utilization of ICT in English learning. One hundred and thirty-four students of a private university in South Sumatera were involved as participants of this study. The questionnaires were administered to gain a portrait of students' perceptions....

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[Developing Balinese Culture-Based Textbook for Intermediate Level BIPA Instruction](#)

Putu Ayu Prabawati Sudana, I Made Suta Paramarta, IGA Pt Novita Sari Paragae, I Dewa Gede Budi Utama

This study aimed at developing a Balinese culture-based textbook for intermediate level BIPA (Indonesian Language for Non-native Speakers). The research method applied in this study was Gall and Borg Research and Development Method. The steps already conducted were 1) need analysis, by distributing questionnaires...

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[Strategy for Empowerment of Pottery Craftsmen in Kasongan Tourism Village, Bantul Regency](#)

Khafid Ismail, Sucihatiningsih Dian Wisika Prajanti, Widiyanto

This descriptive qualitative study which aimed to formulate the empowerment strategy for pottery craftsmen community in the Tourism Village of Kasongan using primary and secondary data. SWOT analysis was used in this study. The data collected through observations, documentation, interviews and focus...

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[Mapping and Distribution of Useful Plant Species in Bukit Kangin Forest, Peglingsingan Village, Karangasem, Bali](#)

Nyoman Wijana, I Gusti Agung Nyoman Setiawan

The objectives of this research were to produce a distribution map and to know the distribution patterns of useful plant species in the original nature in Bali Aga Tenganan Peglingsingan village. This research belongs to explorative and descriptive research. The locations and population of this research...

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["Seed Bag" Production Implementation as an Oriented Critical Institutional Revegetation in "Green Economy"](#)

Sucihatningsih Dian Wisika Prajanti, Eva Banowati, Talitha Widiatningrum

The purpose of this study is to introduce a new method of revegetation of critical land using seed bag to restore the carrying capacity of the land which is diminishing due to natural disasters. This study took place in the Ledek Mountain area of Semarang State University. The variables of this research...

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[Students' Speaking Anxiety on their Speaking Performance: A Study of EFL Learners](#)

Anastasia Ronauli Hasibuan, Ira Irzawati

In the new era of industrial revolution 4.0, it demands that people should enhance their communication competence to interact globally. The ability to speak a foreign language is prominently influenced by one of the problems, namely speaking anxiety. This language production barrier affects various aspects...

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[The Use of “Schoology” in Pragmatics Classes](#)

Ni Made Rai Wisudariani, Sang Ayu Putu Sriasih, Ida Ayu Sukma Wirani,
Ni Putu Seniwati

This study was a descriptive qualitative design which focuses on describing the efficacy of Schoology for teaching Pragmatics. Lecturer who taught at the fourth semester and the students of the Indonesian Language and Literature Education Department were involved as the participant in this study. The...

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[The Economic, Ecological, and Educational Benefits of Sea Turtle Conservation in North Bali Region](#)

Gede Ananta Wijaya, I Nyoman Purwakanta, I Wayan Tantrawan

This study aimed at examining the economic benefits the sea turtle conservation brought to the coastal community, the impacts on the environment, and the benefits that it brings about to education sectors, especially as one of the biodiversity learning resources for the community and students in the...

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[Values of Character Education in the Characterizations of Dory in Disneys’ Animated Feature Finding Dory \(2016\)](#)

I.G.A. Lokita Purnamika Utami, Ni Komang Arie Suwastini, Ni Nyoman Artini, Ummi Kultsum

As technology brings both positive and negative impacts on children’s characters, the present study argues that watching movies online can provide access to entertainment that contains values of character education as showcased by Disney’s animated feature entitled Finding Dory. Through textual analysis,...

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[The Meaning of Economic Activity in the Family Economics from Balinese Women’s Perspective](#)

Luh Indrayani, Lucy Sri Musmini

Women, like men, are also in charge in family economics. This study aimed at understanding the meaning of economic activity in the family economics

from Balinese women's perspective. The approach of this study was transcendental phenomenology by discovering the meaning and reality of informants about...

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[The Effect of Financial Literacy, Gender, and Students' Income on Investment Intention: The Case of Accounting Students](#)

Nyoman Trisna Herawati, Ni Wayan Yulianita Dewi

Investment activities are essential to be developed among millennial generation, including college students. The development of fintech should be able to make students participate in investing activities in the stock market. However, a survey shows that there is a lack of traders from the younger generation....

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[Usability Testing in Tourism Object Management System](#)

I Gusti Ngurah Putra Arijaya, I Made Ardwi Pradnyana, I Made Agus Wirawan, I Wayan Suwendra, I Gede Putra Nugraha, I Nengah Suparta

In developing a website, it must go through usability guidelines to ensure a system is easy to use. Usability is an important aspect to assess the quality of the website interface. This research was conducted to analyze the usability level of the Tourist Management System. This study used a usability...

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[Correlation Between Body Mass Index \(BMI\) and Level of Anxiety to Menstrual Cycle for Young Female Students in the Department of Midwifery](#)

Luh Ari Arini, Ketut Espana Giri, Anjar Tri Astuti

Menstruation is the initial sign in which the function of a woman's reproductive organs has matured. This situation happens every month in a periodic cycle. The menstrual cycle of young women tends to be irregular or disorders because it is influenced by the balance of the estrogen and progesterone hormone...

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Putu Sukma Kurniawan, Sunitha Devi, I Gede Putu Banu Astawa

This research aimed at providing an overview of sustainability reporting practices in Indonesian public universities. This research contained two important discussions. The first discussion explained the development of sustainability reporting practices in Indonesian public university and the last discussion...

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[A Need Analysis and Instructional Strategy in the Village Financial Administration Through Village Financial System Media](#)

Ni Luh Gede Erni Sulindawati, I Gusti Ketut Arya Sunu

This study aimed at analyzing the needs and an appropriate instructional strategy related to village financial administration. The study used a development method, following the stages of the potential and the need problem in the instruction and the need of village apparatus in administrating the village...

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[The History of Taman Sari Temple in Sebudi Village, Selat, Karangasem, Bali and its Potential as a Tourist Attraction](#)

I Made Pageh, I Wayan Putra Yasa

This study is qualitative research that aims to find out the history and spiritual tourism potential in Taman Sari Temple in Sebudi Village, Selat, Karangasem. The steps of the research carried out were determining the location, determining the informant, collecting data, triangulating data, analyzing...

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[Empowering Local Potentiality \(Local Genius\) as Sociocultural Capital to Develop Tourism](#)

I Wayan Kertih

This study aimed at identifying local genius empowerment as socio-cultural capital to develop tourism in Nusa Penida, Bali province by using a cultural ethnographic study approach. The respondents in this study were determined through snowball sampling. The result showed that there were various forms...

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[Spatial Analysis of Rural–Urban Linkages in Suburbs of Denpasar City](#)

Putu Indra Christiawan, I Gede Astra Wesnawa, I Made Sarmita

The debate about rural-urban linkages is crucial in regional development. Rural-urban linkages can be viewed from people's movement as well as the pattern of goods and services. The present study aims to elaborate this linkage in the suburbs of Denpasar City. Primary data had been collected from sample...

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[Primary Literacy Activities in Basic Education in Bali: Describing Implication on Children Reading and Writing in EFL](#)

N.N. Padmadewi, L.P. Artini, L.G.R Budiarta, P.A.R. Apriliadewi

The results of PISA (Program of International Student Assessment) revealed that Indonesia students still have a low literacy level. This research aimed at investigating the implementation of Primary English Literacy activities at elementary school and finding out the effect of the activities toward the...

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[The Development of Android-Based Balinese Dance Dictionary](#)

Kadek Yota Ernanda Aryanto, I Nengah Suandi, I Wayan Mudana, Ni Luh Partami, I Made Bandem

Almost all of the terms used in Balinese dance adopt words or terms from the Balinese language which can make difficulties for those who are interested in learning Balinese dance. Current technologies, especially in mobile technology, can certainly be a solution and become medium to disseminate the Balinese...

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[Knowledge and Perception of Reproductive Health Among Men Who Have Sex with Men](#)

Made Kurnia Widiastuti Giri, Ni Komang Arie Suwastini, Ni Nyoman Artini
The Men Who Have Sex with Men (MSM) lives in irrational stigma of sexual behavior where the community does not have a complete knowledge about MSM sexual behavior. This study aimed to describe MSM's sexual behavior, knowledge, and perception of reproduction health. This study was designed as systematic...

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[Perceptions and Needs Among Diabetes Patients: A Qualitative Study](#)

Made Kurnia Widiastuti Giri, Adnyana Putra

Diabetes mellitus is a degenerative disease that requires multi-dimensional management. Nowadays, the current phenomenon in the community happens that the patients only focused on pharmacological therapy without getting suggestions that describing the other dimensions. This study aimed at analyzing the...

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[English Learning Media for EFL Elementary Learners: A Development of Camtasia-Based Digital Video](#)

Luh Gede Eka Wahyuni, Ade Asih Susiari Tantri

Teachers' less competence in evolving technology-based media into teaching and learning process becomes the basis for this study to develop a learning video by using Camtasia Studio. A design and development research was used with ADDIE model. The development was done based on need analysis through document...

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[Risk Factors for Risky Pregnancy in Patas Village, the Working Area of Gerokgak I Health Center](#)

Ni Komang Sulyastini, Luh Nik Armini, Ni Nyoman Ayu Desi Sekarini, Putu Irma Pratiwi

Every pregnant woman needs to be monitored during her pregnancy. One observation that can be done is through screening and early detection during pregnancy. High and very high risk pregnancies increase maternal complications and death. This study revealed the risk factors for risky pregnancy in Patas...

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[PowToon-Based Video Media for Teaching English for Young Learners: An Example of Design and Development Research](#)

Luh Diah Surya Adnyani, Ni Wayan Surya Mahayanti, G.A.P Suprianti

This study aims to develop a digital teaching media using PowToon that will help raise the integration of ICT in the young learner classroom. In this study, a design and development research method (DDR) was used. The media were developed by applying phases of ADDIE. The development was based on questionnaires,...

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[Data Acquisition of Electric Power Usage as the Implementation of the Internet of Things at Smart Home](#)

A.A. Kusuma Dewi, Gede Suweken, K.A. Ady Aryanto, K.Y. Ernanda
Aryanto

Data from the ASEAN Center for Energy (ACE) shows that Indonesia has the highest level of energy consumption in Asia. Home automation, a smart home scheme utilizing the vast development of the latest networking and AI technologies, has been proposed to tackle the problems. In this work, we have provided...

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[Gamifying Balinese Local Story: Facilitating Gen Z in Learning English](#)

Putu Kerti Nitiasih, Luh Gd Rahayu Budiarta, Ni Wayan Surya Mahayanti

Working with nowadays children, technology cannot be neglected to be involved in their learning. Gamification in education becomes very popular as one of the most effective methods in facilitating students' learning.

Inserting gamification elements in Balinese Local Stories was the purpose of this R&D...

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[Design of the Integrated Health Information System in the District of Bangli](#)

KYE Aryanto, IW Abyong, KA Seputra, GA Pradnyana, A.A.G Yudhi Paramartha

Healthcare information, technology, product of technology, and information technology that supports the development of healthcare can be resulted from research and development of science and technology. The presidential regulation stated that the components of the healthcare management were grouped into...

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[Learning Japanese Language Based on 2013 Curriculum at Elementary Schools in Bali](#)

Desak Made Sri Mardani, I Wayan Sadyana, Luh Diah Surya Adnyani

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[Uncovering Assessment Literacy of Elementary Teachers in Singaraja, Bali](#)

A.A.I. Ngurah Marhaeni, A.A. Gede Yudha Paramartha, Dewa Gede Firstia Wirabrata, Nyoman Dantes, I.K. Agus Susilawan, Dewa Ayu Puteri Handayani

This study aimed at determining the teacher assessment literacy of elementary school teachers in Buleleng Regency. It was a descriptive study with the sample of 144 elementary school teachers selected by using multistage random sampling technique. The data were collected by using questionnaire and interview...

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[STEM Oriented Mathematics Learning with GeoGebra](#)

Gede Suweken

This paper presents a series of GeoGebra-based mathematical applet (mathlets) for science and math subjects, developed for elementary, middle, high school, and Calculus students. The mathlets were developed in order to fulfill requirements for qualified mathematics learning as expected by the K-13 curriculum....

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[Mathematics Learning Outcomes Based on Gender in the Inquiry Learning Model](#)

Ni Ketut Erawati

Gender differences cannot be avoided under any circumstances. The same thing also happens in a classroom. This study aimed at analyzing students' learning outcomes based on their gender in the inquiry learning model. This research used a quantitative descriptive study with a comparative causal method....

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[Musculoskeletal and Postural Stress Evaluation as a Basic for Ergonomic Work Attitudes on Welding Workers](#)

Wahyu Susihono, Yuri Selviani, Ida Ayu Kade Arisanthi Dewi, Ni Luh Gede Liswahyuningsih

Production process in the construction industry is mostly done by human labour in many manual material handling activities ranging from transportation, machine set-up, and workpiece arrangement. At our subject company, 33 workers have complaints about muscle parts, which are commonly referred to musculoskeletal...

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[Carbonization Characteristics of Municipal Solid Waste/Cow Manure Blend](#)

Made Gunamantha, Made Vivi Oviantari, Ni Putu Sri Ayuni

The goal of this research was to elucidate the characteristics of organic fraction of municipal solid waste or cow manure blend biochar produced in a batch-type carbonization reactor at range temperature, ranging from 300 to 350 degrees Celcius. The OFMSW composition to cow manure in feedstock were varied...

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[Validity and Reliability of Critical Thinking Disposition Inventory](#)

I Wayan Redhana, Ida Bagus Nyoman Sudria

The aim of this study was describing the validity and reliability of critical thinking inventory. The type of study was survey research. The study population was students of junior high schools in the Province of Bali, Indonesia. Samples were drawn by a multistage random sampling technique. In each district,...

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[Fraud Prevention Using Village Financial Management Control System](#)

A A Gde Satia Utama, Tri Nur Afiah Wulandari

The study aims at exploring the Internal Control System in preventing fraud in village financial management. This research applied qualitative exploratory with a case study method. The Data of this research were primary and secondary data through interviews, documentation, and observation from Ketapang...

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[Development of Natural Fiber Composites Based on Thickness Swelling Using Palm Fiber and Coconut Fiber Paper](#)

Dewi Oktofa Rachmawati, I Gede Aris Gunadi

Palm and coconut fibers are able to accommodate different water, have good insulation of temperature and sound. The combination of palm and coconut fibers as a reinforcement of natural fiber composites is influenced by the characteristic thickness of the constituent materials. This study aimed at describing...

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[An Error Analysis on English Phrase Category Done by Students](#)

I Wayan Swandana, Dewa Putu Ramendra, Kadek Sintya Dewi

This article aims at analyzing English phrase category done by the English students majoring in English Education Study Program. It discusses about the types of errors on English phrase category and the factors influencing the errors. Qualitative design was chosen in this study. The subject of this study...

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[Improving Teaching Ability with Eight Teaching Skills](#)

Nyoman Sugihartini, Gede Partha Sindu, Kadek Sintya Dewi, Masduki Zakariah, Putu Sudira

In a teaching process, learning media should be developed to engage students in a classroom. This study aimed at developing learning media for microteaching courses in the form of teaching simulation videos. The development model used in making this media was the ADDIE model (Analysis, Design, Development,...

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Developing Coloring Books to Enhance Reading Comprehension Competence and Creativity

Anselmus Inharjanto¹, Lisnani²

¹Department of English Language Education, ²Department of Primary School Teacher Education

Musi Charitas Catholic University

Palembang, Indonesia

¹anselmus@ukmc.ac.id, ²lisnani@ukmc.ac.id

Abstract— Developing a reading learning media can be an effort to increase students' reading comprehension, but there are many teachers who do not put much attention into it. This research aimed at developing a parenting colouring book as a learning media to enhance elementary students' reading comprehension ability and creativity. The method employed was research and development as modelled by Akker. The method consists of three stages, namely analysis, design, evaluation, and revision. The parenting colouring book was firstly validated by experts on the product, which was tested in one-to-one, small groups, and field trial with third graders in one of the elementary schools in Palembang participated in this study. Data collection techniques employed were interviews, questionnaires, and tests. Finally, the study results demonstrate that the parenting-themed coloring book media are categorized as valid, practical, and having potential effects.

Keywords—*research and development; coloring book; parenting; reading comprehension.*

I. INTRODUCTION

The Indonesian Ministry of Education and Culture's Regulation No. 65 of 2013 regarding elementary and secondary education process standards defines that the learning process in educational institutions should be carried out in an interactive, inspiring, and enjoyable atmosphere. It should also provide a space that motivates the students to take an active part in the lessons, while facilitating a room for initiatives, creativity, and independence, related to the students' respective talents, interests, and physical and psychological development [1]. One of the efforts that can be implemented to achieve this process and deal with some problems in learning is through the use of learning media. Learning media is an instrument used to facilitate the understanding of a concept to be achieved in learning [2]. Learning media can be used as an alternative because they emphasize on innovation.

This study was concerned in conducting a research and developing a learning media to enhance students' reading comprehension. The learning media that composed was a parenting-themed coloring book. This media had been familiar to teachers and students [3]. The coloring book intended to assist third-grade elementary students to enhance reading comprehension ability and creativity. The coloring book composed with the concept that children may

learn English while playing during the process, thus it might encourage students' motivation and creativity. This implied that learning which emphasizes on students' activity may enhance learning motivation, thinking abilities, creativity, and learning independence.

The coloring book, which was developed by using the concepts of stories and pictures with parenting themes, aimed at making the students to be more independent as well as to enhance their learning motivation and creativity. The development of students' creativity will be realized when students color the pictures provided in the coloring book. Meanwhile, the students' independence will be realized when the students spend some time to read the stories in the coloring book.

Consequently, the research questions are: Is the parenting-themed coloring book for the third graders of elementary school valid, practical, and having a potential effect? Following the research problems, the objectives of the study are to investigate whether the parenting-themed coloring book for the third graders of elementary school is valid, practical, and provide potential for affecting the students' creativity and competence in reading comprehension. This study is expected to contribute positively for students (i.e. to assist learning parenting-themed material), for teachers (i.e. the use of this learning media may add more learning instrument in teaching parenting-themed material), and for other researchers (i.e. the research may be used as a reference to study deeper about learning media).

The function of learning media for students are to increase motivation, provide and enhance learning variations, provide the structure of subject's materials, provide ease for the students in learning, provide the main ideas and the important points systematically to facilitate students to learn, stimulate learners to focus and analyze, and create conditions and situations of learning without pressure [4].

Reference [5] states that learning media are all things that can be used to deliver messages from the sender to the recipient in the form of physical devices or objects, which make communication and the interaction effect between the teachers and the students during the learning process in the classroom. Learning media is one component of learning. As stated by [6] that, "concepts that are abstract and difficult

to explain directly to the students can be made concrete or simplified through learning media.”

Furthermore, reference [7] underlines that educational media or learning media grow and develop in line with the development of learning technology. The substance of the learning media are: 1) the form of the channel used to deliver the message, information or lesson material to the recipients of the message or learners; 2) various types of components in the learning environment which can stimulate learners to learn; 3) the forms of physical devices that can present messages and stimulate students to learn; 4) the forms of communication that can stimulate learners to learn, both printed or audio, visual and audiovisual.

Next, reference [8] claims “A good reader is an accurate and fast reader”. Some characteristics and requirements to be good readers are necessary as a foundation of reading comprehension [9]. In the reading comprehension test, students have to finish the test in a limited time. To acquire the information from what students read, they must be able to read accurately and quickly. To do this, slow students should improve their reading skills and reading habit. If not, it will be hard for them to finish the test on time. It is stated, “Reading comprehension means extracting the required information from the material as efficiently as possible” [8].

Reading comprehension deals with the level of understanding toward written text [10], producing meanings from the interaction between information, knowledge, emotion, experience, and culture of the readers with the printed words. Without comprehension, the act of reading is empty [11]. Reading comprehension is not limited to the response of the readers toward the text, but it covers a more complicated process that involves the negotiation between the readers’ prior knowledge, their experience in reading, their mastery of various reading strategies along with aspects from the texts such as the text’s genres, types, and topics.

According to [12], some fundamental components of reading comprehension include word recognition, working memory, word knowledge, prior knowledge, inference assumptions or hypotheses, and comprehension monitoring. In a broad definition, reading is the complex communicative behavior of deriving meaning from the presented text [13]. Reference [14] defines reading as an active, intentional and creative mental process in which the reader is involved in an instruction with the text to the construct meaning from the text, by partly using new information presented in the text and partly using any relevant world knowledge, emotions, and opinions for the sake of making sense of the texts presented on the page.

Comprehension can be defined as “an active process that requires an intentional and thoughtful interaction between the reader and the text” [15]. Reference [16] argues that comprehension is a process where readers construct meaning through interaction with text with the integration of background knowledge and prior experience, the information presented in the text, and the view point the reader holds in connection to the text. Besides, reading comprehension is defined “as the process of simultaneously

extracting and constructing meaning through interaction and involvement with written language” [17]. In other words, reading comprehension is an active and intentional interaction and engagement between the reader and text to extract and construct meaning. Reading is much more than getting information from the text through decoding what is written in the text. Reading is the formation of meaning where the readers bring in their past experience and prior into the process.

The processes of reading which are widely agreed by experts are a bottom-up model (from text to brain) and the top-down model (from the brain to text). Reference [14] describes the two processes. First, in the bottom-up model, the readers decode the text (English text) from left to right, from letters into words, and from words into sentences in deriving the writer’s message which the readers continue from this reading process to the top-down model. Secondly, in the top-down model, the readers decode the text exactly or sequentially. In this case, readers will negotiate between the expected meaning that they assume prior to the reading process with the meaning formed during the reading process. In this case, the reading process makes use of all the available visual information on the text to confirm or to negate their expectation. In short, reading is a process of predicting a meaning, getting samples to verify the meanings, and confirming the predicted meaning. It is a process where the readers are engaged with a text in the process of integrating the information presented in the text with their prior knowledge to construct a meaning for the text.

So, reading needs comprehension. Comprehension is the main purpose of reading. Comprehending the text is an active interactive process between the readers’ prior knowledge of the text. Reading depends on the quality of the readers’ comprehension. In other words, being a good reader necessitates good comprehension. Comprehension is an active, thinking process. It requires effort on the part of readers. Readers need to assess their prior knowledge, while measuring their vocabulary, relating concepts, making inferences, and linking key ideas.

Reference [11] argues that there are five basic comprehension processes that simultaneously work, namely micro-processes, integrative processes, micro-processes, elaborative processes, and metacognition processes. It is further stated that reading comprehension can be categorized into some levels. People who master reading comprehension skills can be considered in a certain level based on their achievement. Referring to [18], there are four reading comprehension levels (i.e. literal, inferential, evaluation, and appreciation). In particular, this study is assumed to focus on the first level of reading comprehension. Elementary school students are expected to master their literal levels, such as perceiving the main idea explicitly stated in a written text, identifying general information from a written text, identifying general sequence information from a written text, identifying general cause and effect explicitly in a written text, and explaining the meaning of word, phrase, and sentence based on the text.

Creativity is the result of creative thinking because creative thinking is the process when one creates new ideas. According to [19], creativity is the ability to produce or create something new; creativity is the ability to make new combinations that have social significance. Creativity involves characteristics related to the ability to discover or do something new. Furthermore, reference [20] adds that creativity also involves the ability to find new alternative solutions different from the existing ones, both through original ideas or through original combinations of the existing ideas.

Several studies have been carried out on the related topic. For instance, references [21] that suggested the *Pencak Silat* (or martial arts) puzzle and coloring book media were appropriate to be used to introduce the basics of *Pencak Silat* for young learners. Next, reference [22] investigated the development of a reading comprehension test. These studies have several differences in the current study. The current researchers utilize parenting-themed coloring books to increase students' reading comprehension ability and creativity.

II. METHODOLOGY

A. Research Method

To develop a parenting-themed coloring book for the third graders, the development research method was used. Reference [23] states that, development research aims at designing a product for certain purposes through certain procedures (i.e. analysis, design, evaluation, and revision). Besides, the formative evaluation model proposed by [24] was employed in the evaluation to the intervention. As described by [23], the intervention can be categorized into three main criteria of quality of intervention (i.e. validity, practicality, and effectiveness).

B. Research Participants

The developed parenting-themed coloring book for the third graders were evaluated by the students of one of the private elementary schools in Palembang particularly those who were in the first semester, and the academic year of 2019/2020. The research subjects are described in Table 1.

TABLE 1. STAGE OF FORMATIVE EVALUATION

No	Staged by Formative Evaluation	Description of the Students
1	One-to-one evaluation	1 student for each category, i.e: low, medium, and high proficiency
2	Small group evaluation	3 students for each category, i.e: low, medium, and high proficiency
3	Field test	All the students in a real class

C. Research Procedures

The procedures of the study based on the aforementioned suggestions [23], which comprise the phases, i.e.; analysis, design, evaluation, and revision, as follows:

1) Analysis

This phase includes instructional analysis, environmental analysis, students' need analysis, and students' reading level analysis. Concerning reading level analysis, reference [25], an informal reading inventory (IRI) was utilized. Each text consists of three reading stages which are frustration, instructional, and independent.

2) Design

Here, the product prototype is designed consisting of the paper-based design of the coloring book. In paper-based design, the activities were the content of the coloring book and a parenting-themed reading comprehension text. For readability, the reading texts were calculated automatically by using an online tool named Flesch Kincaid (i.e.: <https://readability-score.com/>). Next, the reading comprehension test is in the form of multiple-choice questions, conveying some aspects such as the main idea, influence, cause-effect, detail, vocabulary in context, etc.

3) Evaluation and Revision

In this phase, the formative evaluation by [24] was used. There are five steps in this evaluation, namely, self-evaluation, expert review, one-to-one evaluation, small group evaluation, and field test. The procedure of the study is concisely presented in Fig. 1.

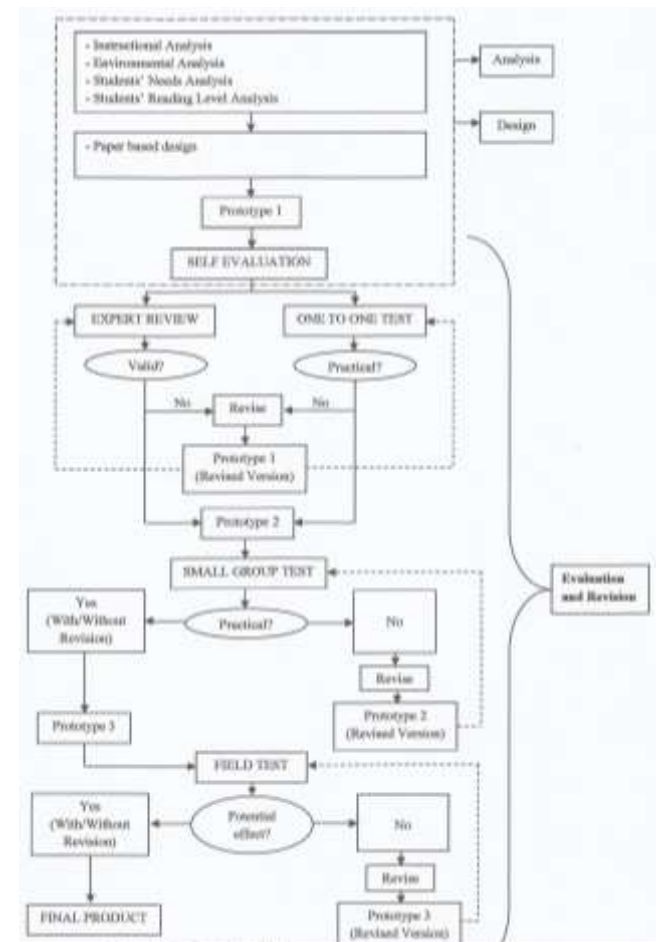


Fig. 1. Procedure of study

D. Data Collection Techniques and Analysis

Since the research aim is to develop a parenting-themed coloring book that is valid, practical and has potential effect; consequently, to determine its validity, practicality, and potential effect, instruments that used were questionnaires (Likert-scale, closed-ended questions), structured interview, and reading comprehension test.

The validity of the product was determined in the expert review. They provided the judgment via questionnaires. To determine the product's validity level, the scores were calculated and interpreted. Next, to analyze its practicality, questionnaires were administered to students in one-to-one and small group evaluations. The validity and practicality categorizations were modified from [26]. The scores obtained were then calculated and interpreted. Finally, to investigate the potential effect of the developed product, the reading comprehension test was used. The data were analyzed by using percentages, based on the minimum criteria (or KKM) which were 70.

III. RESULTS AND DISCUSSION

A. Analysis

The parenting-themed coloring book developed by the researchers is a type of development research. After the story in this coloring book was completed, the researchers analyzed the students' reading levels by using the *Flesch-Kincaid Grade Level*. The results demonstrate the reading level of Siblings is 4 or it is easy to read. It means the story is suitable for third and fourth graders.

In the analysis phase, it began with the analysis of the material at the elementary level. The material analyzed was the materials for third graders. Furthermore, the researchers analyzed the environment around pupils related to how students' introduction to their families. The researchers then analyzed student needs using a questionnaire.

There were 30 questions included in the questionnaire and there were 25 students acted as respondents. The responds to the questionnaire's questions revealed that (1) although the students' reading skill was low, they perceived having capability in reading English texts was very important; (2) the students had low interest in reading, as reflected in the scarcity of the reading frequency; (3) English teacher still employed teacher-centred method and rarely used innovative methods (4) students showed high eagerness in reading; (5) students had very high opinion in essay questions; (6) students perceived reading with media technology as more interesting than the conventional reading; (7) students had never used e-learning based on thoe local folklores; (8) students perceived online reading materials were difficult to comprehend and were not reasonable to students' reading level.

B. Design

In the design phase, there was a story developed as reading materials in a set of parenting-themed coloring

book as shown in Fig. 2 and 3. These figures suggest the parenting-themed coloring book has a moral message.



Fig. 2. Example of the coloring book

Siblings

Mia and Ani are two sisters. They are siblings. Mia, the older sister, is now in the third grade of elementary school while Ani, the youngest, is only 3 years old. Mia was busy doing homework, tasks from school, in the family room. The teacher of craft in school asked students to make gift decorations using ribbons.

That afternoon Mia was still busy cutting and sticking ribbons. Ani was interested in his sister's activities. She tried to come closer and started tugging at the decorative ribbon. At that time, Mother was reading while sitting on the sofa, near the children. Mother occasionally watched the siblings who were busy working and playing..... etc...etc.

Fig. 3. Extract of the story in the coloring book

C. Evaluation and Revision

1). Expert Validation

Experts validation was conducted by seeking opinions from related experts concerning this product's content, instructional design, and product design. In the following table, the suggestions from the expert judges are summarized.

TABLE 2. SUGGESTIONS FROM EXPERT REVIEW

No	Expert Review Judgment	Suggestions
1	Product Design	Various picture can be employed to enrich the book
2	Instructional Design	It would be better that the book is equipped with choices to employ scientific approach so teacher can have reference about how to use the book using scientific approach.
3	Content	Good.

2). Level of Validation

The average score of each validity was used to determine the content validity, construct validity and product validity. The average score of the content validity of the parenting-themed coloring book was 3.86, which can be considered as very high. The score of the construct validity was 3.67, which can be categorized as very high. The score for the product validity was 3.50, which was very high. Thus, the overall validity was 3.67, which was very

high. Thus, the parenting-themed coloring book can be categorized as valid with a very high level of validity.

3). *One-to-One Evaluation*

The one-to-one evaluation was held in the early weeks of the first semester of the academic year 2019/2020 at one of the primary schools in Palembang. Two 80-minute meetings were allocated for the one-to-one evaluation. The one-to-one evaluation was conducted with three students. The average score acquired was 3.40, which can be categorized as very high practical level. Tus, the parenting-themed coloring book can be categorized as very highly practical.

4). *Small-Group Evaluation*

The small group evaluation was held in the second month of the semester of the academic year 2019/2020 at one of the primary schools in Palembang. Two 80-minute meetings were allocated for small group evaluation. Three students were involved in the small group evaluation. The average score of practicality acquired was 3.58, which can be categorized as very high. It could be concluded that the parenting-themed coloring book has a very high practical level.

5). *Evaluation/Field Trial*

The field trial in this study was conducted in the third month of the first semester of the academic year 2019/2020. In the field trial, 26 students were involed. During the reading comprehension test, the parenting-themed coloring book was proven effective. The test revealed that 19 out of 26 students (76.93%) achieved the minimum mastery criterion 75. The result of the field trial could be seen in the following figure.

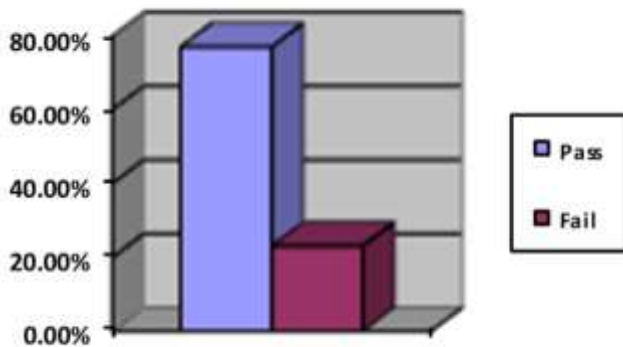


Fig. 4. *Test result*

IV. CONCLUSION

The parenting-themed coloring book is valid, practical, and has a potential effect. The use of the parenting-themed coloring book is most likely to enhance reading comprehension ability and creativity. It would be fruitful to pursue further research about developing coloring books in varied themes to improve other English skills.

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