

Proceeding ISOAE 2016

5TH INTERNATIONAL SEMINAR ON QUALITY & AFFORDABLE EDUCATION

"Enriching Quality and Providing Affordable Education through New Academia"

7th- 8th December 2016 The Sahid Rich Jogja Hotel Yogyakarta Indonesia

© Faculty of Education Universitas Teknologi Yogyakarta ISBN 978-602-72540-1-5

Proceeding



5TH INTERNATIONAL SEMINAR ON QUALITY & AFFORDABLE EDUCATION

Enriching Quality and Providing Affordable Education through New Academia

Jointly organized by:















Hosted by:



7th- 8th December 2016

Faculty of Education
Universitas Teknologi Yogyakarta, Indonesia

Proceeding of the 5th International Seminar on Quality and Affordable Education

Enriching Quality and Providing Affordable Education through New Academia

Edited by:

Juhansar Tri Widodo

Reviewed by:

Erwin Akib, Ph.D., M.Pd. Mariani Md. Nor, Prof. Dr. Mustaqim Pabbajah, Dr., M.A. Nadiroh, Prof., Dr. Orbanus Naharia, Prof. Dr. Yusof Boon, Prof. Dr.

Cover designed by:

Ari Prasetyoadji Suhatmojo Eko Wibowo

Proofread by:

Publication unit, ISQAE 2016

ISBN: 978-602-72540-1-5

Published by

FACULTY OF EDUCATION

Campus 1 Universitas Teknologi Yogyakarta

Jl. Ringroad Utara, Jombor, Sleman - Yogyakarta 55285 Phone (+62 274) 623310 (ext.) 167 - Fax. (0274) 623306

E-Mail : fp@uty.ac.id
Website: www.uty.ac.id

© Faculty of Education, Universitas Teknologi Yogyakarta

First printed, February 2017

All reserved. None of the publication of this proceeding can be republished or transferred in any means, electronically or mechanically such as copying, recording or storing for reproducing or accessed without the written consent from the holders of the rights.

All the papers in this proceeding are presented at the 5th International Seminar on Quality and Affordable Education (ISQAE), 7th – 8th December 2016 at the Sahid Rich Jogja Hotel Ballroom hosted by Faculty of Education, Universitas Teknologi Yogyakarta, Indonesia.

Acknowledgement Rector of Universitas Teknologi Yogyakarta

Assalamu Alaikum Waramatullahi Wabarakatuh

Ladies and Gentlemen,

I am grateful indeed that God blesses us for participating in the 5th International Seminar on Quality and Affordable Education (ISQAE) 2016. I welcome the General Seceretary of the Ministry of Research and Technology for Higher Education of the Republic of Indonesia. I am sure that the Ministry of Education supports Universitas Teknologi Yogyakarta to conduct scientific activities. I am also thankful that many professors, lecturers, teachers, and students attend this seminar to share knowledge and ideas.

Universitas Teknologi Yogyakarta always supports the faculties to hold international seminar and other academic activities for the lecturers and students. We like to maintain our cooperation with national and international universities to carry out national and international programs. We believe that our lecturers and students must have national and global experience to enhance their capabilities.

In addition to conducting international programs to improve the capabilities of lecturers and students, UTY is happy to work together with other unversities and the government to increase the quantity and quality of research and publication. We are proud to have some MoUs with international universities in research and publication development aspects. Also, we are planning to build 16-floor tower for UTY's Research Park.

Today, The Faculty of Education of UTY is holding an international seminar and it is our commitment to conduct national and international scientific events every year. We dedicate our efforts to the development of science and technology.

Again, thank you for participating. My special thankful appreciation goes to ISQAE consortium members; Universitas Negeri Jakarta, Universiti Malaya, Universiti Teknologi Malayasia, Universitas Negeri Manado, Universitas Muhammadiyah Makassar that have supported us. I really wish all presenters and participants a very valuable conference. Hopefully it will bear precious knowledge and ideas.

Wassalamu Alaikum Waramatullahi Wabarakatuh

Yogyakarta, 7th December 2016 Yours Sincerely,

Prof. Bambang Hartadi, Ph. D., M.M., C.A., C.P.A.

Rector of Universitas Teknologi Yogyakarta

Severta.

Acknowledgement Dean of Faculty of Education Universitas Teknologi Yogyakarta

Respected the General Secretary of the Ministry of Research and Technology for Higher Education Respected the Rectors and Deans of ISQAE Consortium members Respected all speakers, presenters, and participants

Assalamu Alaikum Waramatullahi Wabarakatuh

I welcome you to the 5th ISQAE 2016 held by Faculty of Education, Universitas Teknologi Yogyakarta. I hope you participate actively to develop knowledge and ideas related to the improvement of education that we may serve to our students. The discussion on education is a continuous activity. It will support the effort to improve the quality of education system, and educators. The target of improving quality is influenced with the social and economic conditions of society in the system.

International Seminar on Quality and Affordable Education (ISQAE) 2016 is a seminar that will discuss and find recommendations to the governments and intitutions that play role in it. The seminar is conducted by a consortium consisting of Universitas Negeri Jakarta, Universiti Malaya, Universiti Teknologi Malayasia, Universitas Negeri Manado, Universitas Muhammadiyah Makassar. The consortium will be inviting other institutions from South East Asia countries to work together to improve the quality of education in all countries of South East Asia.

ISQAE 2016 certainly considers some matters in education such as economic condition, advancement of technology, political situation, and etc. However, it is not only in the point of view of considering them as threats but also in the point of view of considering them as opportunities. Educators should have a lot of ways to generate improvement in their countries. They have big responsibility for improving the quality of new generation in their countries.

Education must become a major factor of problem solving system in a country. However everyone in a country has a right of having education. Education must be affordable. The government and all educators should talk and then can determine factors to make education affordable. The factors that guarantee the quality and affordability of education can become new academia.

We expect to have solutions. Therefore, we invite educators from South East Asia countries. We are certain to get ideas from educators coming from similar areas with similar cultures of life.

Again, thank you for participating. I wish you have good and valuable conference.

Wassalamu Alaikum Waramatullahi Wabarakatuh

Warm Regards,

Chairman of ISOAE 2016

Dr. Mustaqim Pabbajah, M.A.Dean of Raculty of Education - UTY

Contents

The Importance of Sex Education in High School Students: An Islamic Perspective A. Z. Arifin
The Importance of Sex Education in High School Students: An Islamic Perspective A. Z. Arifin
The Importance of Sex Education in High School Students: An Islamic Perspective A. Z. Arifin
A. Z. Arifin
A. Z. Arifin
A Case Study in RS. Soekanto Jakarta Agus Priadi
Years and Eight Months: A Case Study Ananda Setiawan, Miftah Komala Putri
Ditinjau dari Perbedaan Gender Andi Husniati
Students Grade X SMAN 1 South Galesong Andi Paida Orientasi Gurupasca Pemetaan Kompetensi dalam Sistem Pembelajaran Abad 21
That bark i by ansar i, isitaq
The Use of Batak Illocution Literacy "menolak" in Surakarta Anggun Melati Sari, Andayani, Sumarlam
Pig Hunting Society Cultural West Sumatra in the Novel Pulang by Tere Liye Arifa Ainun Rondiyah, Nugraheni Eko Wardani, Kundharu Saddhono
The Use of Epistemic Modality in a Novel Negeri 5 Menara and Its Implications towards Learning in High School Arista Mayang Sari
Improving Prosocial Behaviorby Hopscotch Gamebased on Javanese Culture of Kindergarten Students Asroful Kadafi, B. Tika Ambarsari
The Implementation of ICT in Improving Young Learners' Writing Skill through Collaborative Method

Minimizing Brain Drain: Optimizing Triple Helix Scheme and the Indonesia Brain Drain Community (IBDC) Baharuddin, Dian Lesmana, Dewi Novitasari, Inggritia Safitri
Interrelationship of Chemistry Achievement and Strategic Metacognition in Students Gender Perspective Benny Yodi Sawuwu, Senna Prasemmi
Teaching Application Letter through Email for the 12 th Grade Students of SMKN 3 Serang Academic Year 2016/2017 Cucum Rohmawati
"Learn While Cultured" as Culture Conservation Efforts with Innovation in Learning Indonesian and Implementation Plan on Learning Text Report of Observation Darmina Pratiwi Barus
Learning through Media Development Using Assure Model Darnawati, Jamiludin, Mursidin, Nani Yuniar, Waode Ade Sarasmita Uke
Environment Assessment Base on Temperature and Rainfall Related DHF Cases in Jakarta Dede Tarmana
Implementasi Program Induksi bagi Guru Pemula Sekolah Dasar Negeri di DKI Jakarta Desi Rahmawati, Dirgantara Wicaksono
Use of Audio Visual Media and Technical Writing <i>Feature</i> Daniel R. Williamson in Learning Essay Writing <i>Devi Surindra, Sarniti, Andi Afriza DS</i>
Character Education Based on Positive Psychology to Improve Indonesia's Human Resources Quality Dian Yudhawati
Integration the Elements of Javanese Culture in Learning Process to Strengthen Youth Character Djoko Sulaksono, Bagus Wahyu Setyawan
Students' Gender Relation on Achievement Result of Fluid Statics Investigated by Contextual Teaching and Learning Under Android Application Dwi Nanto, Yusina Fadla Ilmi, Diah Mulhayatiah
Peningkatan Prestasi Mata Kuliah Pemrograman Visual Mahasiswa S1 Pendidikan Teknologi Informasi Fakultas Pendidikan UTY Menggunakan Metode Belajar Berbasis Masalah
Dwi Ratnawati, Tri Widodo, Vivianti
Language Learning in Digital Based Communication Era Dyah Mukaromah, Survo Sudiro, Karladian Putri
TANDE WERNELDHILD JULYO JUULO KULUUUU FULL

Lecturer to Visionary Leadership at Islamic University 45 Bekasi Diyah Yuli Sugiarti, Ramdani Murdiana
Program Biaya Operasional Pendidikan: Suatu Upaya Peningkatan Mutu Pendidikan di Sulawesi Tenggara Edy Karno, Syahrul
Meningkatkan Aktivitas dan Hasil Belajar Mahasiswa Biologi melalui Penerapan Model Kooperatif Group Investigation dengan Pendekatan Salingtemas pada Mata Kuliah Pengetahuan Lingkungan Eka Apriyanti
Influence of Learning Model Beyond Centers and Circle Times (BCCT) and Independence the Creativity of Children Ages 5-6 Year Elindra Yetti, Adianti Ruqoyah
The Students' New Environmental Paradigm (NEP) of Mathematics Study Program at Universitas Sultan Ageng Tirtayasa in the Teaching-Learning of Environmental Subject Enggar Utari, Nadiroh, Shahibah Yuliani
The Efforts to Improve Mathematics Learning Activity Using Cooperative Learning Model Type Two Stay Two Stray in Linear Program Material Student Class XA SMK Muhammadiyah 1 Kalasan Ervin Tamta Lirnawati, Mardiyana, Dewi Retno Sari Saputro
Developing Curiosity through Linguistic Intelligence-Based Learning to Improve Students' Critical Thinking and Creativity Ervira Maharani, Eka Kartikasari, Vouzya Hamdi
Pembelajaran Kewirausahaan di Pesantren Wirausaha Agrobisnis Abdurrahman Bin Auf Klaten Fitri Nurlaili
The Relationship of Leardeship, Smart IHC, Service Quality with the Patients' Satisfasfaction at Public Health Centers in Manado City Fransien Tompunu, John Senduk, S. Simanjuntak, JAM Rawis
Gender in Classroom Discourse Hartini
The Effectiveness of Applying Mind Mapping Strategy on Student Speaking Ability: The Quasi-Experimental Study to Six Grades Student in Cikande I Elementary School, Serang Ida Nuraida
Pengaruh Metode Pembelajaran dan Motivasi Belajar terhadap Hasil Belajar Praktikum Perkantoran

Contextual Approach and the Use of Audio Visual Media "Video Sentilan Sentilun": Classroom Action Research in Class X IS 2 at SMA Negeri 1 Surakarta Indri Kusuma Wardani, Retno Winarni, St.Y. Slamet
Teaching Scholar Contribution on Learning Process and Passing Grade Improvement at the Elementary School in Kepulauan Talaud of Indonesian Boundary Territory Irma Djanapa Bulow, Fientje Oentoe, Johannis Senduk, Sanusi Gugule
Analisis Kesalahan Berbahasa Siswa SMP Terbuka Cimanggung dalam Menulis Catatan Harian Istya Juniarti Amalia, Yusuf Nurdiansyah, Rani Noereani
Pengembangan Model <i>Brain Base Learning</i> pada Jenjang Pendidikan Anak Usia Dini untuk Menumbuhkan Kreativitas Manusia Indonesia Sejak Dini <i>Iva Sarifah, Sofia Hartati, Sudharno Dwi Yuwono</i>
Mechanism of Assessment and Reflection on Thematic Assignment for Strengthening of Critical Thinking and Democratic Attitudes in Learning J.O. Raturandang, Ch. Medellu
Pengaruh Komitmen, Efikasi Diri, Motivasi dan Keefektifan terhadap Produktivitas Kerja Guru Sekolah Menengah Pertama Negeri di Kabupaten Minahasa Utara Jane Esther Sangian
Development Design and Implementation Task Cross Energy Thematic Study of Education Jeane C. Rende
Integration of Local Elements in Design and Implementation Project Thematic Aspects of Physical Damage and Abrasion Tema Coastal Areas in District Manganitu Jeane V.Tumangkeng, Sanusi Gugule
Collaborative Research of Lecture-Student-Teacher for Strengthening the Teacher Roles in Designing and Implementation of Thematic Assignment Johan Abram Rampengan
Representasi Wanita dalam Dongeng Jawa sebagai Sarana Pembentukan Karakter dan Sarana Memperkuat Identitas Kebangsaan Kartika Rahmat Sari Dewi, Fitriana Kartika Sari
Development Program in Parenting Class on Early Childhood Education Institution in Southeast Sulawesi La Ode Anhusadar
Analysis of Creative Thinking Skills at High School Students Level on the Concept of Temperature and Calor

Studi Pendidikan Guru Sekolah Dasar Universitas Muhammadiyah Tasikmalaya: Studi pada Mahasiswa PGSD Angkatan 2015 Maesaroh Lubis
Pengaruh Bahasa Inggris dalam Membentuk Kosa Kata Baru Bahasa Indonesia Mokh. Yahya, Andayani, Kundharu Saddhono
Inventory of Literacy Humor towards Applying of 2013 Curriculum Muhammad Asyura
Keep Smile Book: An Instrument of Students' Affective Evaluation Muhammad Hanif
The Development of Interactive e-Book Learning Materials through 4s TMD Munawwarah, Paed. Sjaeful Anwar
Eksistensi Bahasa Indonesia dalam Membangun Keberagaman Budaya Munirah
Development of Words Visual Media for Students with Hearing Impairment to Stimulate Language Skills in Primary School in Jakarta Murni Winarsih, Indrajaya, Agatha Pianora Saris
The Character Education Model Based on Local Cultural Values Nanik Hindaryatiningsih
Civilize Local Language to Implant the Ethics Since Early Childhood: A Literature Studies Ni Nyoman Sudiani
The Approach Analysis of Child Education Bajo Ethnic: Study in Floating High School Muhamadiyah Wakatobi, Southeast Sulawesi - Indonesia Nurdin
Students' Comprehension Profile about Character based Assesment of Physics Experiment Nurlina
Profesionalisme Guru Pasca Sertifikasi di SMA 1 Bissappu Kabupaten Bantaeng Nursalam, Suardi
Expressive Speech Acts of Ethnic Papuan in Surakarta Nurul Hidayah Fitriyani, Andayani, Sumarlam
Ecofeminism for Ethical Behavior Figure Mabel in the Novel <i>Tanah Tabu</i> Creation Aninditia S. Thayf Paramita Nur Pratiwi, Suyitno, Nugraheni Eko Wardani
Utilization Management Linow Lake as Natural Laboratory in Department of Physics
Patricia Mardiana Silanaen

Implementasi Metode Sosiodrama dalam Pembelajaran Unggah-Ungguh Bahasa Jawa di SMPN 2 Jogonalan Klaten Prima Veronika, Shinta Tyas Pratisthita
Management and Governance Boarding School towards World Class: Case Study at Pondok Pesantren UICCI Sulaimaniyah Indonesia – Turki Ramdani Murdiana, Rita Aryani, Diyah Yuli Sugiarti
Good University Governance, Is It Necessary? Rhini Fatmasari
The Effect of Teacher's Competency, Achievement Motivation and Creativity on Their Teaching Performance: A Study in Distance Learning Education Program Rhini Fatmasari, Untung Laksana Budi
Quality Management based Religion as Academic Support in UICCI Sulaimaniyah Boarding School Rita Aryani, Ramdani Murdiana
Slow Reading and Speed Reading: Two Different Techniques in Reading Comprehension Sayit Abdul Karim, Suryo Sudiro, Syarifah Sakinah, Yek Amin Aziz
Analysis of the Role of Book Journal Activities Reading Results in Order to Create the Motivation Cultural Literacy: A Case Study in Class X SMK Santo Paulus Surakarta 2016/2017 Academic Year Selvia Putri Kumalasari, Budhi Setiawan, Sumarlam
Penguatan Jati Diri Bangsa melalui Pengintegrasian Nilai-Nilai Karakter Bangsa Indonesia dengan Strategi Pembelajaran <i>Contextual Learning Sihadi Darmoduhardjo</i>
Principal Leadership in Implementing School Based Management in Face of the Challenges of Society in the 21st Century Sita Ratnaningsih
The Attitude of the Main Character to Love form on Novels Entitled "Ayat-Ayat Cinta" by Habiburrahman El-Shirazy and "Di Bawah Lindungan Ka'bah" by Hamka: Psychological Literature Study Siti Ayu Ningsih
Conflict Management University of Sariputra Indonesia Tomohon Sjerly Maria Lumi, Jolanda Rawis, Sanusi Gugule, Deetje Katuuk
Penerapan Nilai Karakter Peserta Didik di Satuan Pendidikan Ditinjau dari Gaya Kepemimpinan, Sikap Guru, Budaya Sekolah Sri Ratna Pasiak
The Teaching and Learning of the Siti Zubaidah Version of Dulmuluk (DMSZ) Performing Arts for Students of Faculty of Teacher Training and Education Sriwijaya University: An Effort to Preserve Traditional Culture Arts
. 114.114.05.1788.17.11.11.11.11.1

Syarfa Nurrezan Salamun, Mahani Mokhtar, Abdul Halim Abdullah, Azlina Mohd Kosnin, Nornazira Suhairom Life Philosophies of Banyumas People in the Ahmad Tohari's Novels Teguh Trianton, Sarwiji Suwandi, Herman J. Waluyo, Kundharu Saddhono Development Design and Thematic Task Implementation of Water Cycle for Integration Process Concept – Local Context – Global Context to XI IPA 1 SMA Negeri 1 Manganitu Students Theresje Mandang The Use of Puzzle Games Media in Developing TGT Type Cooperative Learning Model to Improve Students' Learning Achievement in Logarithm Titik Purwandari, Mardiyana, Ikrar Pramudya Students' Problems in Translating Texts Wahyuni Rismawati, Imam Ghozali Comparison of Linear Method and Equipercentile Equating Based on Length of Test on Small Sample Size Wardani Rahayu, Maria Ulfah Training Model Agility for Beginners Athlete Pencak Silat Widiastuti, Muhammad Hasyir Improvement of Rheumatoid Arthritis on Elderly Posyandu Members through Health Counseling Winarti Agustina The Accuracy of Vertical Equating with Equi-Percentile Method Based on Sample Size and Test Lenghts Yetti Supriyati, Adeliyana, Wardani Rahayu Communication Strategy Student Indonesian Foreign Speakers Yeyen Purwiyanti, Sarwiji Suwandi, Andayani Teen Magazine is a Teacher: Magazine as the Strategy to Teach How to be a "Good" Women through Hegemony Zakridatul Agusmaniar Rane Computerized Item Banking: An Important Tool for Classroom Assessment	the Students of Senior High School of Seminary of Mertoyudan, Magelang, Central Java Surawan Martinus
Development Design and Thematic Task Implementation of Water Cycle for Integration Process Concept – Local Context – Global Context to XI IPA 1 SMA Negeri 1 Manganitu Students Theresje Mandang	Aktiviti Kesukarelawanan ke Arah Pembangunan Modal Insan di Malaysia Syarfa Nurrezan Salamun, Mahani Mokhtar, Abdul Halim Abdullah, Azlina Mohd Kosnin, Nornazira Suhairom
Integration Process Concept – Local Context – Global Context to XI IPA 1 SMA Negeri 1 Manganitu Students Theresje Mandang	Life Philosophies of Banyumas People in the Ahmad Tohari's Novels Teguh Trianton, Sarwiji Suwandi, Herman J. Waluyo, Kundharu Saddhono
Model to Improve Students' Learning Achievement in Logarithm Titik Purwandari, Mardiyana, Ikrar Pramudya	
Comparison of Linear Method and Equipercentile Equating Based on Length of Test on Small Sample Size Wardani Rahayu, Maria Ulfah Training Model Agility for Beginners Athlete Pencak Silat Widiastuti, Muhammad Hasyir Improvement of Rheumatoid Arthritis on Elderly Posyandu Members through Health Counseling Winarti Agustina The Accuracy of Vertical Equating with Equi-Percentile Method Based on Sample Size and Test Lenghts Yetti Supriyati, Adeliyana, Wardani Rahayu Communication Strategy Student Indonesian Foreign Speakers Yeyen Purwiyanti, Sarwiji Suwandi, Andayani Teen Magazine is a Teacher: Magazine as the Strategy to Teach How to be a "Good" Women through Hegemony Zakridatul Agusmaniar Rane Computerized Item Banking: An Important Tool for Classroom Assessment	The Use of <i>Puzzle Games</i> Media in Developing TGT Type Cooperative Learning Model to Improve Students' Learning Achievement in Logarithm <i>Titik Purwandari, Mardiyana, Ikrar Pramudya</i>
Test on Small Sample Size Wardani Rahayu, Maria Ulfah Training Model Agility for Beginners Athlete Pencak Silat Widiastuti, Muhammad Hasyir Improvement of Rheumatoid Arthritis on Elderly Posyandu Members through Health Counseling Winarti Agustina The Accuracy of Vertical Equating with Equi-Percentile Method Based on Sample Size and Test Lenghts Yetti Supriyati, Adeliyana, Wardani Rahayu Communication Strategy Student Indonesian Foreign Speakers Yeyen Purwiyanti, Sarwiji Suwandi, Andayani Teen Magazine is a Teacher: Magazine as the Strategy to Teach How to be a "Good" Women through Hegemony Zakridatul Agusmaniar Rane Computerized Item Banking: An Important Tool for Classroom Assessment	Students' Problems in Translating Texts Wahyuni Rismawati, Imam Ghozali
Improvement of Rheumatoid Arthritis on Elderly Posyandu Members through Health Counseling Winarti Agustina	Comparison of Linear Method and Equipercentile Equating Based on Length of Test on Small Sample Size Wardani Rahayu, Maria Ulfah
Health Counseling Winarti Agustina	Training Model Agility for Beginners Athlete Pencak Silat Widiastuti, Muhammad Hasyir
Size and Test Lenghts Yetti Supriyati, Adeliyana, Wardani Rahayu	Improvement of Rheumatoid Arthritis on Elderly <i>Posyandu</i> Members through Health Counseling Winarti Agustina
Yeyen Purwiyanti, Sarwiji Suwandi, Andayani	The Accuracy of <i>Vertical</i> Equating with Equi-Percentile Method Based on Sample Size and Test Lenghts Yetti Supriyati, Adeliyana, Wardani Rahayu
Women through Hegemony Zakridatul Agusmaniar Rane Computerized Item Banking: An Important Tool for Classroom Assessment	Communication <i>Strategy</i> Student Indonesian Foreign Speakers Yeyen Purwiyanti, Sarwiji Suwandi, Andayani
	Teen Magazine is a Teacher: Magazine as the Strategy to Teach How to be a "Good" Women through Hegemony Zakridatul Agusmaniar Rane
	Computerized Item Banking: An Important Tool for Classroom Assessment Frivatmi

Pengembangan Materi Ajar Banasa Indonesia Berbasis Karakter Pada Manasiswa Universitas Muhammadiyah Makassar	662
Muhammad Akhir	663
Vendor Selection Using Analytical Hierarchy Process (AHP): A Critique Paper Uky Yudatama, Arief Ramadhan	675
School Leadership and Management on the Curriculum Development: A Case Study of Indonesian Junior High School	
Yuyun Yulia	680
Professional Teacher Certification: Between Hope and Reality	685
Zoya f. Sumampow	003

DEVELOPMENT DESIGN AND THEMATIC TASK IMPLEMENTATION OF WATER CYCLE FOR INTEGRATION PROCESS CONCEPT - LOCAL **CONTEXT - GLOBAL CONTEXT TO** XI IPA 1 SMA NEGERI 1 MANGANITU STUDENTS

Theresie Mandang

t.mandang@yahoo.com

Department of Physics, Faculty of Science and Mathematics, University of Manado, Indonesia

Abstract

This research develops instructional design of thematic task which integrated local context - concept - global context for water cycle theme. The aim of this research is to: describe students' learning process in working on thematic task's water cycle instruction with concept - local context - global context. Data accumulation technic is using observation form for students' learning process. Quantity analysis is used as data analysis method. Quantity analysis is used for describing research variable indicators, material plan implementation (students' learning process). The result of this research shows that at thematic learning process which integrated concept - local context - global context, students, teachers, parents, and society, students are involved actively in working on thematic task's instruction, discussion, also interview. According to the result of this research, it comes to conclusion that learning based on thematic task could help to build an interactive learning process and giving knowledge to students in relating concept – local context – global context based on experience.

Keywords: Thematic Task, Water Cycle, Approaching of Concept, Local Context, Global Context

Introduction

Human life is very dependent on the availability of clean water. Hydrological cycle is where the water undergoes a process that never stops from the atmosphere to the earth and back to the atmosphere through condensation, precipitation, evaporation and transpiration. According Sumarno (2014), the hydrological cycle is a related process, where water is transported from the ocean to the atmosphere (air), ashore and return to the sea. This process occurs continuously. Soil water balance are now starting disturbed by human activities that exploit natural resources. Eg illegal logging and no replanting resulting in lack of water infiltration into the soil so that rain water can not be absorbed into the soil but flows directly into the sea and eroding topsoil caused flooding and landslides. In addition, a trend that occurred during the dry season is the reduced availability of water due to lack of water catchment areas

Learning to recognize the importance of preserving nature in order to support the process of the water cycle should be applied in education in order to build knowledge and awareness in protecting the environment, utilize water efficiently and controlling factors that determine the availability of fresh water. Education according to Dewey (2002) is the process of establishing the fundamental skills intellectually and emotionally more towards nature and fellow human beings. Education also needs to be raised learning materials sourced from the surrounding environment. According Kazempour (2014) about collaborative learning environment can be emphasized in scientific practice, critical thinking and problem solving.

Thematic task is a task that is drafted and implemented in an integrated or interactive cross-field of study, involving components of learning implementers (teachers, students, parents and community). Material assignment focuses on the theme of the environment (physical, social, cultural), relevant global issues, and concepts related to the field of study

(Medellu 2013). Thematic approach to the themes of learning, allowing students to make a natural relationship between learning subjects. The model in this study was developed from a basic thematic instructional tasks with a model that includes three main components: (1) the elements of the local context, (2) concepts, and (3) the context / global information. Students can apply the concepts into everyday life by identifying local context that allows activities such as observation, experimentation, discussion of local issues etc. Based on local context identified concepts and networking concepts formulated. Further events are identified that correspond to local contexts that occur globally or for a wider context At this stage have done the enrichment of local learning context with global information found with instructional media such as the Internet, newspapers, television, etc.

Results of a survey by the development team at Sangihe, thematic task shows that learning materials come only from books and did not take advantage of the surrounding environment as a learning resource (Mandang, 2013). Students are not faced with the object of science learning in the form of the real world around him. This causes difficulties students apply the concepts into everyday life. The design of materials and learning activities connecting context with the concept to develop an integrated manner: knowledge, skill and affection (Medellu, 2014).

Thematic learning creates a learning atmosphere of democracy. Definition of learning democracy is a learning process that is based on values - values of democracy, the respect for the ability, uphold justice, implementing equality of opportunity and pay attention to the diversity of students (Soeyasa 2012). The learning process is the need for an open atmosphere, intimate and mutual respect. Instead needs to avoid the stiff learning atmosphere, full of suspense and loaded with orders and instructions that make students become passive, listless, bored quickly and experience fatigue. Democratic atmosphere in many learning will also provide the opportunity for students to practice and develop to realize the rights and obligations or their ability.

Research Purposes

This study aims to: Describe the process of student learning in the work assignment instructions thematic water cycle by integrating the concept - the local context - the global context.

Research Methods

Research Design

This research is basically a research and development (Research and Development). Sugiyono (2011) states that research is the development of research methods used to produce a specific product and test the effectiveness of the product. The development of thematic task-based learning device includes two stages of learning software design tasks thematic basis, and the development of thematic task learning device.

Research Subject

Subjects were students of SMA Negeri 1 Manganitu, according to the design assignment instructions thematic themed water cycle using a model of integration of the concept-context (includes three main components: (1) the elements of the local context, (2) concepts and networking concepts, and (3) context / global information), is assumed to have been or are being followed regularly in the classroom learning about the concept of science subjects Physics, so the implementation of the thematic task instructions into contextual enrichment of the concept of learning is carried out regularly in the classroom.

Research Time and Place

Time: January-February 2014 Place: SMA Negeri 1 Manganitu

Stages of Development, Research and Indicator Variables

Activities and students productivity in the learning process (follow tutorials, group interaction). The indicator used to measure these variables are: 1). The percentage of students who attend group learning activities over 80%. 2) The percentage of students who attend the tutorial activities over 80%. 3) students ask questions relevant to the material tasks / activities. 4) The percentage of students answer questions correctly asked the teacher or other students. 5) The percentage of students correctly answered questions posed parent / community. 6) The percentage of students who are actively involved in more than 80% in conducting observations. 7) The number of groups that include the task on time. b. activities of groups of students in the development of materials (thematic task) independently. The variables used include: 1) A large variety of activities developed by groups of students based on the material and thematic task scenarios. 2) The number of the relevant context defined groups. 3) Frequency of implementation of learning activities outside scenario as initiative groups in the context of mature mastery of tasks or procedures.

Data Collection Techniques

Data is collected using: a). Student assignment sheet for data collection mastery of concepts, relationships between concepts, linking concepts and contexts across fields of study, the identification of relevant concepts with issues / problems within the theme. b). Format observation for data: student participation in the design, student learning. c). Format observation for data: the ability of students (developing draft thematic material duty cycle theme of water according to the characteristics of local / neighborhood school) and teacher productivity (carrying out tasks and learning activities, thematic).

Data Analysis Techniques

Methods of data analysis using quantitative analysis. Quantitative analysis is used to describe the indicators of research variables, implementtasi design of materials (student learning). Data for each indicator were obtained and analyzed descriptively percentage with the following formula:

Score =
$$\frac{total\ score\ indicator}{number\ of\ students} \times 100\ \%$$

Research Results

Results of research tasks thematic learning in SMA Negeri 1 Manganitu for student learning are as follows: a. Activities and productivity of students in the learning process (follow tutorials, group interaction): 1). The percentage of students who attended the study group was 78.95%. 2) The percentage of students who attended the tutorial is 78.95%. 3) Students ask questions relevant to the material tasks / activities is 0%. 4) The percentage of students answer questions correctly asked the teacher or other students is 21.05%. 5) The percentage of students correctly answered questions posed parent / community is 15.79%. 6) The percentage of students who are actively involved in more than 80% in the conduct of observation is 84.21%. 7) The number of groups that include the task on time is 78.95%. b. Activity groups of students in the development of materials (thematic task) independently. The variables used include: 1) A large variety of activities developed by groups of students based on the material and thematic task scenario is 0%. 2) The number of relevant contexts that defined the group is 74%. 3) Frequency of implementation of learning activities outside scenario as initiative groups in the context of mature mastery of tasks or procedures is 0%. Based on the basic instructional materials, there are seven activities that integrate concepts -Local context - the global context. Indicator - an indicator of student learning process variables were observed in this study to approach the concept - the local context - solid global context are presented in Figure 1, as follows:

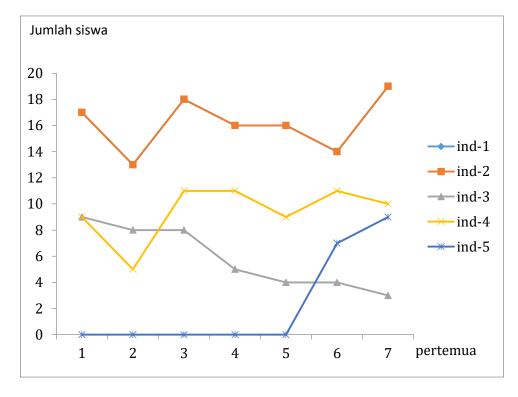


Figure 1. Graph Indicator of Student Learning

Discussion

Based on the results, it can be described as follows: a). Graph of the student learning process for indicators 1 and 2 (1 students who attend learning activities group), (2 students attending the tutorial activities) meeting on 1 to 7 meeting is not stable or up and down, because at the meeting of 2 and 6 presentations of students attend tutorial activities decreased because there were some students who were absent for reasons vary due to the location of a home away from the place of study and some are absent due to illness. b). Graph of the student learning process for indicator 4 (students answer correctly questions the teacher / others) From the graph above the indicator 4 is not fixed, the activities 3, 4, and 6 students are more enthusiastic to answer questions from teachers and parents. d). Graph of the student learning process for indicator 7 (The number of groups that include the task on time) is good, each member of the group has always put the task on time at every meeting. In this study, parents and the community play a role in learning. Democratic schooling or learning needs the support of all personnel involved in the management of the school (Ozcan, 2005). Parents play an important role in the learning process of democratic child (Bekoe and Quartey, 2013). So in this study for the students' learning process, show the student activity in learning, good discussions, questions and answers, as well as interacting with parents, teachers, and community

Conclusion

The student learning process for thematic task water cycle by integrating the concept - the local context - the global context, showing activity of students in the learning process and the involvement of teachers, parents and the community in learning activities. Students are also involved in working on the task of thematic instruction, discussion, and question and answer session conducted between researchers and students, fellow students in a group, students with parents. In the process of field training, students are actively involved in the activities of observation and practice.

References

- Bekoe R. and E.F. Quartey. 2013. Assessing Community Participation in Promoting Basic Education at the Akorley District Assembly (D/A) Basic School in the Yilo Krobo Municipality Eastern Region Ghana. Journal of Education and Practice: 4(7): 124-134
- Dewey, Jhon. 2002. *Pendidikan dan Pengalaman*. (Alih bahasa: John de Santo). Yogyakarta: Kepel Press http://multiajaib.blogspot.com/2014/10/pengertian-pendidikan-menurut-ahli.html, diakses 3 november 2014)
- Kazempour M.. 2014. I can't teach science! A case study of an elementary pre-service teacher's intersection of science experiences, beliefs, attitude, and self-efficacy. *International Journal of Environment and Science Eduation*, 9: 77-96
- Mandang T. 2013. Laporan survei dalam rangka pengembangan model instruksional tugas tematik meng-integrasikan konteks local dengan global berbasis jejaring konsep. Jurusan Fisika FMIPA Unima
- Medellu Ch. 2013. Konsep, Model, Metode Perancangan, dan Contoh Tugas Tematik. LP2AI Unima.
- Medellu Ch. 2014. Perancangan tugas tematik dengan pendekatan sosiosaintifik. LP2AI Unima. Ozcan M. 2005. The Education We Need: Democratic, Diversified and Experiential, RIC, Issues In Teaching and Learning, Volume 4. Rhode Island College. http://www.ric.edu/itl/volume04_ozcan. Download: 15 september 2015
- III. Soeyasa, 2012. Demokrasi Pembelajaran Dan Joyfull Learning (Online)
- IV. (http://soeyasanaghbelog.wordpress.com/2012/11/10/demokrasi-pembelajaran-dan-joyfull-learning/, diakses 22 oktober 2014)
- Sugiyono. 2011. *Metode Penelitian Kuantitatif, Kualitatif, dan R & D.* Bandung: Alfabeta. https://yekamath.files.wordpress.com/2012/08/penelitianpengembangan-dalam-pendidikan1.pdf diakses pada 30 Mei 2015
- Sumarno, 2014. *Hidrologi hutan.* (Online)
- (http://www.academia.edu/8628257/HIDROLOGI HUTAN FHIL UHO 2014, diakses 2 oktober 2014)

















UNIVERSITI TEKNOLOGI UNIVERSITI MALAYA UNIVERSITAS NEGERI UNIVERSITAS MUHAMMADIYAH MALAYSIA MANADO MAKASSAR

