

Part of **SPRINGER NATURE**

[PROCEEDINGS](#) | [JOURNALS](#) | [BOOKS](#)

Search

Series: [Advances in Social Science, Education and Humanities Research](#)

Proceedings of the First International Conference on Progressive Civil Society (ICONPROCS 2019)

ARTICLES

Search

[+ Advanced search](#)

SEARCH

65 articles

Proceedings Article

[Additional Implications of Injury Costs of Health BPJS Patients as Community Empowerment Efforts](#)

Sri Suatmiati, Edi Kastro, M. Idrus, Viky Candra

Based on data released by BPJS Kesehatan at the beginning of February 2018, the current population of Indonesia who became BPJS participants amounted to 192,029,645 people with the highest number of participants using central government funds, which amounted to 48.07%. The classification based on BPJS...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Spin-off and Social Funds' Productivity of Islamic Banking Industry in Indonesia

Zulfikar Bagus Pambuko, Nurodin Usman, Lilik Andriyani

Islamic banking Act in Indonesia requires to manage the financial funds and social funds simultaneously. In the case of spin-off Islamic Banks, the fund manager is separate from the parent company, including in managing social funds, e.g. zakah, infaq, and sadaqah. This study is going to investigate...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Development of Ludo Media to Improve Social Studies Learning Outcomes of Fifth Grade Elementary School Students

Vera Erviana, Fajar Pambudi

The purpose of this research was to determine the steps of the development, also to determine the feasibility of Ludo learning media for 5th-grade Social Studies learning the material. This research was Research and Development. The subjects of the testing were the 5th grade students as many as 28 students...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

In-Service Teacher's Response to The Professional Development Training and Workshop in Indonesia

Dwi Sulisworo, Dian Kusumaningtyas

Teacher professionalism is an essential factor in managing quality education as a critical factor in the civil society movement. The Indonesian government

has been improving teacher professionalism through the teacher certific program. The implementation of teacher certification has been carried...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Analysis of Parent Satisfaction with the School Service Using Kano Methods: The Case Study at The Private School in Yogyakarta, Indonesia

Dwi Sulisworo, Lisanti Siswanto

Many factors are determining the parent decides to send their children to a particular school. The purpose of this study is to obtain the satisfaction level of educational quality experienced by the parent. The type of this research is descriptive, explorative analysis with qualitative and quantitative...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Community Rights in Taking the Legal Effort of the Accidents of Government Infrastructure

Sugeng Riyanta, Hartiwiningsih Hartiwiningsih, I.G. Rachmi

This paper aims to describe and analysis on community rights in taking the legal effort of the accidents of government infrastructure. There are two points from that topic that will be describe and analysis, firts on The Importance of Monitoring the Implementation of Infrastructure Projects and second...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Implementation of Child- Friendly Schools: Challenge and Obstacles in the Era of Technological and Information Advancement

M. Arifin, Sudarmo Sudarmo, Desiderius Sudibyoy

Nowadays, the problem of education in Indonesia becomes interesting to discuss related to multidisciplinary science. Of course, this is because education is closely related to children as the next generation of the nation who have a strategic position in the development of Indonesia. Therefore, children...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Teacher Pedagogic Communication for Effective Learning

Suyatno Suyatno, Siti Urbayatun, Ika Maryani, Caraka Bhakti, Dwi Sulisworo

The primary objective of this research is to find a strategy in building pedagogic communication between teachers and students in North Maluku Senior High Schools for which to improve the effectiveness of learning in the classroom. Pedagogic communication is the communication between teachers and students...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Correlational study between learning style and reading comprehension at university level students

Muhammad Rujani

Each learner in the classroom receives and processes information in a unique way which makes the students distinct from one to the others. Some learners

way which makes the students distinct from one to the others, some of them may have a combination of learning styles. So for a teacher it is really important to identify the learning style of his/her students so that the teacher...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Behavioral Concept and Practice Moderate in Islam on The Effect of Strengthening Character Values in Traditional Islamic Boarding School: The explanation of Social Learning Theory

Nur Hamidah

Research on character education has been a subject of intellectual studies. The character becomes an important thing to note in line with the times and threat of terrorism. Previous research found many facts on the ground with various character values. The question that needs to be investigated is how...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Mobile Application with 3D to Improve Self- Determined Learning Interest : Student's Response and Challenge in Biology Class

Dian Septiana, Gunarhadi Gunarhadi, Muhammad Akhyar

The limited choice of media to increase the learning interest of affordable middle school students encourages the importance of developing interactive learning media that are suitable for the needs of students. Gadgets technology that is increasingly developing becomes a benchmark for developing more...

[+ Article details](#)

[Article details](#)[+ Download article \(PDF\)](#)

Proceedings Article

Challenges to accountability and transparency in implementing discretion in public services in Indonesia

Jemi Jemi, Desiderius Sudiby, Rutiana Wahyuengeseh

Talking about the implementation of public policies cannot be separated from the implementation or application of public policy through programs, activities, actions, and doings in a mechanism that is bound to a particular system. In addition, actors have a major role in implementing public policies...

[+ Article details](#)[+ Download article \(PDF\)](#)

Proceedings Article

Global Citizens Awareness Through Digital Literacy In the Fourth Industrial Revolution: A Riview of the Literature

Hermy Yanzi, Obby Hidayat, Ana Mentari, Dasim Budimansyah

This article aims to report on the current state of research on the various alternative solutions in increasing global citizen awareness by utilizing digital literacy as an ability to use digital media (Internet of things, big data, and robotical feature). This research used a critical study method by...

[+ Article details](#)[+ Download article \(PDF\)](#)

Proceedings Article

The Unique Explanations of Cognitive Hierarchy of needs theory on the Phenomena of Cohabitation, Young Marriage and Divorce: Qualitative study of young marriage to Banjar tribes in Deluh Manan Village

UBES III FAHUI MATAH Village

Purnama Sari, Setyabudi Indartono

Research related to cohabitation or more commonly referred to as "kawin kebo", which became one of the triggers of a young marriage and ultimately caused divorce which is still rarely done in Indonesia. Even though cohabitation is a new phenomenon, it is still considered to be controversial. Indonesia...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Teacher Readiness Level Facing Technology Demands, Pedagogical Skills and Development of School Culture in the 21st Century

Moh Ulinuha, Setyabudi Indartono

Teachers in the 21st century face more complex challenges and difficult work for them, for example: increasing diversity students and parents, higher demands for quality education, standards of teaching and learning processes with higher outcomes and others. This article aims to explain the importance...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Strengthening Civic Literacy through Media Literacy in Jabar Saber Hoaks

Ari Febrian, Iim Masyitoh

Today Indonesia is facing an abundance of fake news circulating on social media. This condition is exacerbated by the lack of digital media literacy accepted by the people. The existence of Jabar Saber Hoaks serves as an excellent step to strengthen civic literacy among the citizens against fake

news...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Student Learning Outcomes and Learning Evaluation in the Implementation of Physic Worksheet Base on Technological Excellence and Added With Islamic Values: Case Study For Male Students (Santri Putra)

Eko Nursulistiyo, Ariati Puspitasari, Yoga Prabowo, Dian Kusumaningtyas

Research has been carried out to study the student learning outcomes and learning evaluation in the implementation of student worksheets (LKS) based on technological excellence and imbued with Islamic values for grade X high school male students. This research used a pretest-posttest control group design...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Inclusive Growth in Bengkulu Province: Multidimensional Approach

Ahmad Soleh, Ketut Sukiyono, Ridwan Nurazi

The development of the concept of inclusive growth in the past decade has become important in research studies. Increased economic growth is expected to provide benefits for reducing poverty, reduce income inequality, increase employment opportunities and improve environmental sustainability. The purpose...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Strategies of The English Teachers in Islamic Boarding School (IBS)

Asrikah Lestari, Bambang Pratolo

Nowadays, learning English becomes a necessity to support the progress of a nation. Finding the best learning strategy becomes a challenge that needs to be answered by English researchers and teachers. Investigating English language teaching and learning in regular schools is very common. This study...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Interactive Game: A Step To Reduce Science Learning Difficulties of Elementary School Students

Ika Maryani, Nurdin Hidayat

Natural Science is one of the complex material in elementary school learning. This makes many students experience learning difficulties. Learning media must be able to simplify this complexity, and also reduce the dual perception of abstract concepts by making it concrete. This research aims to develop...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Post-Placement Empowerment of Nurse Returnees in Indonesia

Mujiati Mujiati, Harimat Hendarwan

A large number of health workers especially nurses (79%) who work abroad raise new problems when they return to their homeland, for example the

raises new problems when they return to their homeland, for examples the difficulty of finding work with appropriate income or rewards. On the other hand, the potential possessed by post-placement overseas nurses such as language...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Learners' Perspectives on English as a Learning Media in Maritime English Classes

Marsitah Marsitah, Bambang Pratolo

Vocational Education, Teaching English,

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Obstacles of Copyright Protection against Traditional Cultural Expression in Indonesia

Fithriatus Shalihah, Ali Hakim

Medium of Instruction, Maritime English Classroom

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Forecasting the Number of Tourist Arrivals to Batam by applying the Singular Spectrum Analysis and the Arima Method

Agustinus Ete, Meita Fitriawanawati, Muhammad Arifin

Singular Spectrum Analysis (SSA) is a time series method used to decompose the original time series into a sum of a small number of components that can be interpreted such as trends, oscillatory components, and noise. The purpose of this study is to compare the accuracy of the forecast between the SSA...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Role of Job Satisfaction on Employee Work Productivity

Fatwa Tentama, Subardjo Subardjo, Surahma Mulasari, Eka Meilani

Job satisfaction has a role of influencing work productivity. This study aims to empirically examine the role of job satisfaction on employee work productivity at the University of X Yogyakarta. The research sample is permanent and active employees who have worked for at least one year. The selection...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Design Analysis of Mathematics Teacher Lesson Plans Based on Higher Order Thinking

Yuni Kartika, Budi Usodo, Ikrar Pramudya

The quality of lesson plans are one of the factor determining success of the learning process in schools. One element of the 2013 curriculum transformation is 21st century skills, namely higher order thinking skills integration in mathematics learning. Basically, to get HOTS thoroughly mastered by the...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Factors Causing the Increase of Suicide in Gunungkidul Regency

Kurnia Anggraeny

This study aims to find the factors causing the increase of suicide in Gunungkidul Regency (case study in Wonosari Subdistrict and Semanu sub-district) and find out the efforts made by the police or local authorities in dealing with the problem of increasing suicides. The research applied sociological...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Digital Philanthropy in Indonesia: Strengthening Civic Virtue for Digital Citizens

Aina Nurdiyanti, Karim Suryadi

This article aims to report the results of a study of a model of digital-based social movements that can strengthen civic virtue. In this study social movement is seen as citizenship education in the socio-cultural domain. This study used a qualitative approach with case study design. The focus of the...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Musyawah and Meaning of Sovereign People in People's Democracy Perspective Pancasila Values

Megawati Megawati

People's sovereignty or modern democracy is a democracy with a representation system, people choose someone from themselves to represent

representation system, people choose someone from themselves to represent it. The Indonesian state, which has known the order of democratic life since before the Indonesian state was born, namely people's sovereignty or democracy based on...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Impact Of Over Capacity On Fulfilling The Basic Rights Of The Assisted Citizen In Prison In The Perspective Of Human Right

Henny Nuraeny, Tanti Utami

Prison is actually a place for people who have obtained a fixed decision from the Judge, with the aim of providing guidance to criminal offenders to realize their mistakes, improve themselves, and cause deterrent effects, so that they do not commit criminal offenses and can fulfill their life needs....

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Policy Guidance for Prisoners in Perspective of Law Number 12 of 1995 concerning Prisons: Comparative Study of Cianjur Prison and Magelang Prison

Dedi Mulyadi, M. Aridhayandi

The paradigm shift of the prison system to correctional institutions replaces the term prisoner to be a Citizen. One form of guidance for the Guided Citizens is spiritual formation as practiced by Cianjur Class II B Prison and other forms of life skills training in accordance with the policy in Magelang...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Fostering Prisoners Through A Religious Approach: Case Study in Class II-A Prison in Magelang, Central Java and Prison Class II B Cianjur, West Java

Kuswandi Kuswandi, Cucu Solihah

Prison is a place for fostering prisoners who have problems with the law with the aim of preparing prisoners to be able to integrate healthily and be accepted in society well. In addition to the skill abilities of prisoners, prisons also have the responsibility to nurture the mental and spiritual prisoners,...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

A Systematic Review on Sustainable Human Resource Management: A Framework for Managing Training in The Indonesian Police Force

Zidni Husnurofik, Fitri Nurmahmudah, Husaini Usman

This study aims to analyze the state-of-the-art of sustainable human resources management in police and to identify key elements, trends, and research gap. A systematic literature review was carried out using the JSTOR database, covering the period from 2013-2018, which resulted in a corpus of 11 scientific...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Active Learner Strategies in Era of Disruption: a Literature

Review

Aminatul Syakdiyah, Fitri Nurmahmudah, Wiwik Wijayanti

In this transformation era, that humans be able to become competitive subjects to innovate in every single area. The disruption era that grows along with the industrial revolution 4.0 were called digitalization was brought many effects for its changing. As the agent of change, the learner should be able...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Migraine Prevalence and Treatment in Students of Yogyakarta State University

Qisthihana Mazaya, Wara Kushartanti

This research is the preliminary research of the development of a Self Massage Therapy Model for migraine healing. In Indonesia, research on the migraine prevalence in large populations has not been widely carried out, so that valid data about migraine prevalence have not been widely known. The peak...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Strengthening Morality And Character of Madrasah Tsanawiyah's Students in Kulon Progo by Developing Good Habits and Effective Communication With Parents

Sutipyo Ru'iyah

Children's morality and akhlak have been in the spotlight lately, and teachers are often suspected of this problem. The teacher as an agent of change has a heavy responsibility to keep the moral and moral character of the child well-

maintained. Based on the phenomenon, the decline in moral and akhlak

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Consumer Protection of Drug in Indonesian Law: Examining The Paternalism Theory

Norma Sari

Strengthening progressive civil society among Southeast Asia in consumer protection, based on a long history of consumer protection movement which was initiated by civil society. This research focuses on paternalism theory; the development; the needs and applied model in Indonesian Law. This normative...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Increasing Student Capacity in Disaster Preparedness through Psychosocial Training

Irvan Handaka, Zela Septikasari

Psychosocial knowledge and skills are very important considering guidance and counseling services are also needed in crisis counseling during disaster response. This refers to the Minister of Education and Culture number 23 of 2008 concerning Indonesian Counselor Competency Standards (SKKI), counselors...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Correlation Between Teaching Readiness with Math Anxiety of Primary Pre-Service Teacher

Mukti Sintawati, Ginanjar Abdurrahman

The purpose of this study was to find out: 1) Readiness to teach mathematics of primary pre-service teacher in semester 6 of the academic year 2017/2018, 2) level of math anxiety of primary pre-service teacher in semester 6 of the academic year 2017/2018, and 3) is there a relationship between student...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Teacher Competence in Developing Motor Skills of Elementary School Students

Akhmad Rizqi, Panggung Sutapa

One of the development aspects that must be developed is physical or motor development. Learning while playing can be used as a way to apply kinesthetic-based motor skills learning by actively involving physical activities or using parts of the body in a happy and fun atmosphere. This research aimed...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Effect of Transformational Leadership Style and Human Relations on Work Satisfaction

Subardjo Subardjo, Fatwa Tentama, Desta Kusuma, Rellin Ayudya, Surahma Mulasari

Transformational and human relations leadership style are two factors which are capable of influencing work satisfaction. This research aims to

empirically examine the role of such leadership style and their influence towards work satisfaction in X University. The subjects of this research : permanent...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Relationship Between Work Satisfaction with Employee Engagement

Fatwa Tentama, Subardjo Subardjo, Surahma Mulasari, Novi Ningrum

Job satisfaction is a factor capable of increasing the level of employee engagement. This study aims to empirically examine the relationship between job satisfaction and employee engagement. The subjects in this study are the lecturers at the University of X. The selection of subjects was randomized...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Magic of Creation Philosophy: Building the 21st Spiritual Literacy through Seven Learning Pathways

Unik Salsabila

To address the potential disclosure pace of information technology and the reality of eroding Islamic character values, mastery of spiritual literacy is essential for students in the 21st century. This study aims to find useful learning models that can be developing in the process of planting religious...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Curriculum Model of Study Program-based Muhammadiyah Form of Cadre

Zalik Nuryana, Arif Rahman, Farid Setiawan

Islamic education should quickly adapt itself with era development. The study program in university has an important role in delivering the students' success. Islamic Education Study Program of Ahmad Dahlan University (PAI UAD) develops study program-based form of cadre curriculum called ORNAMI the Orientation...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Historiography of the Arabic Grammar in Europe: The Legacy of Wright's Arabic Grammar

Yoyo Yoyo, Abdul Mukhlis

Arabic Grammar is a branch of science that emerged in the early Islamic era. Nevertheless, grammatical works compiled by the Arab scholars such as Sibawaih with his al-Kitāb considered difficult to understand by those who are not Arabic speakers (especially for Europeans) in terms of paradigm and its...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Participatory Development Communication: A Strategy in Climate Change Adaptation in Southeast Asia

Mohummad Hassan, Estrella Arroyo

Climate change is a global apprehension impacting the lives of millions from

Climate change is a global apprehension impacting the lives of millions in all spheres of the world. Most hard-hit are the less-developed nations whose livelihood depend much on agriculture with low-level technology, poor information system, and weak grassroots institutions. This is now a significant...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Teaching Material Development Among Higher Education Teachers: A Qualitative Study in Indonesian Context

I'in Irliana, Bambang Pratolo

This study is intended to investigate the ways the teachers of higher education develop teaching material which include how to select, modify and develop their own teaching materials. This study applies the qualitative research method with in-depth interview and observation as the data collecting techniques....

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Empowerment of Small and Medium Enterprise (SME) Traders Through Insurance

Mulhadi Mulhadi, Syaiful Azam

This study aims to find an empowerment model for SME traders who are considered ideal in the future with an empirical juridical approach through distributing questionnaires to 95 trader's respondents in 4 main markets in Medan city, where samples are determined by purposive sampling technique were measured...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Students' Generic Science Skills in Chemistry Learning Using Inquiry-Based Learning

Retno Utami, Eli Rohaeti

Generic skills are skills needed for various fields of work and life. In this research, the generic skills discussed are generic skills in the field of science, called generic science skills. This research aims to analyze the effect of inquiry-based learning on students' generic science skills in chemistry...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Framework of the Blended Learning in Vocational Study to Achieve Hot Skills

Sukatiman Sukatiman, Muhammad Akhyar, Roemintoyo Roemintoyo, Siswandari Siswandari

This study aims to find and test learning frameworks that are suitable to be applied in Geomatics material at the university level. The method used was descriptive qualitative, with the participation of 32 students who were given mixed learning through a model, method, and evaluation. Data collection...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Dispute Settlements of Oil Spills in the Sea Towards Sea Environment Pollution

Elly Kristiani Purwendah, Dewa Gede Sudika Mangku, Aniek Periani

Environmental pollution often occurs not only in parts of the environment that are on land, but environmental pollution often also occurs in the sea. The sea is a part of the environment that has enormous benefits and roles for

human life. In history, the sea has proven to have various functions, including...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Juridical Review of Islamic Law: Surrogacy Phenomenon in Southeast Asia Countries

Syariful Alam, Nur Hidayah

Rent womb or commonly called surrogacy arises because of the modernization process, the process of modernization here is the development of science and technology in the field of medicine, namely genetic engineering. The purpose of rent womb is to help a married couple who are unable to have offspring...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Urgency of the Ombudsman in the District in monitoring the Operation of Public Services

Iskatrinah Iskatrinah, Doni Supriyo

This study was based on the background of the condition of public services in Indonesia which is still considered poor by the public using public services. Many complaints and criticisms have been expressed by the public to government institutions, service providers, both at the central and regional...

[+ Article details](#)[+ Download article \(PDF\)](#)

Proceedings Article

Investigating the Effectiveness of Inquiry Learning and Direct Learning Models Toward Physics Learning

Fatmawati Fatmawati, Luh Sukariasih, Suritno Fayanto, Heri Retnawati

This research proposes to determine the effectiveness of physics learning by comparing physics learning models, namely inquiry learning and direct learning models. This research limited to a review of student learning outcomes taught by using inquiry learning and direct learning. The research instrument...

[+ Article details](#)[+ Download article \(PDF\)](#)

Proceedings Article

ASEAN Civil Society In The Digital Era; Are We Moving Backwards?

Sholahuddin Al-Fatih, Zaka Aditya, Haris Haris, Wahyudi Kurniawan

One of the impacts of technological development is the shifting of people's interaction from offline to online and borderless, from the citizen to the netizen. There is a negative side to the interaction change, which is the potential for malicious activity in the virtual world by state and non-state...

[+ Article details](#)[+ Download article \(PDF\)](#)

Proceedings Article

High Fertility Rates for the Education Infrastructure Crisis in Developing Countries: The Case of Malawi

Manfred Ndoyi Xin Miao

School infrastructure is one of the important factors that contribute to quality education. However, school infrastructure continues to be a serious challenge for most developing countries in the World. The ever-growing population coupled with high fertility levels has given most developing countries...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Wanprestasi of Mudharabah Financing in Sharia Banking

Wwin Wiyono, Eti Erowati

This study aims to determine the completion of wanprestasi on mudharabah financing in sharia banking. To achieve these objectives, the normative juridical approach method is used. Conclusion, the existence of sharia banking in Indonesia is a bank which operates in line with Islamic sharia provisions,...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Moral Panic and Online Prostitution: Study of Social Reactions

Arif Awaludin, Ikama Triana

The increasing progress in information and communication technology has an impact on the mode of crime. Online prostitution is one mode of crime that utilizes this technological advancement. The ease of access obtained, the maintenance of the confidentiality of the perpetrators and the lack of law enforcement...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Natural Science Learning Based on Technology For Studer to Prepare For 4.0-Era Education

Siwi Purwanti

College Students of Primary School Teacher Education, Ahmad Dahlan University are the younger generation who will contribute in building civilization in education, especially after they graduate and apply knowledge in the elementary school world. For this reason, lecturers need to provide knowledge in...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Policy for Formulating Criminal Law in the Indonesian Criminal Justice System

Sukmareni Sukmareni, Aria Zurneti, Syaiful Munandar

This study aims to analyze the policy of reformulating corruption law in Law No. 20 of 2001 concerning changes and additions to Law No. 31 of 1999 concerning the eradication of Corruption in Indonesia, and the policy on the formulation of corruption law needed to accelerate the eradication of Corruption...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Implementation of the Employment Social Security for Informal Workers or Labors with No Employment Contract in Purbalingga Regency

Susilo Wardani

Social security is the right of every citizen protected by law. Every citizen,

including informal workers, including workers outside of employment, is entitled to the social security. In Purbalingga Regency, the participants of employment social security from informal workers are very low. This...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Progressive Law Implementation in the Southeast Asian Country Environment

Suyatno Suyatno

Southeast Asian countries still face challenges collectively in resolving regional and international security issues. Progressive law is very necessary. The community currently agrees that handling legal issues is not enough in the hands of their own countries to require cooperation from Southeast Asian...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

The Simulations of Energy based on the Building Masterplan of RSUD Pandan Arang Boyolali

Isra' Darmawan, Basuki Basuki, Priyono Yulianto, Susatyo Pramono, Novi SP, Iwan Rustendi

Safe and comfortable are important factors which can affect to the patient's healing process. However, the patient room designed up to standard requires to creating healthy, safety, and comfortable for inpatient room. This study aims to simulate energy consumption based on Masterplan of the local government...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Growing the Shame in Overcoming Juvenile Delinquency in the Educational Institutions in Bengkulu Province

Ani Aryati, Purmansyah Ariadi

This paper is based on the phenomenon of juvenile delinquency that is increasingly felt to be troubling every day, from mild to severe actions. This condition is based on various factors, one of them is educational environmental factor. School age teenagers called students should be grown a culture of shame...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Proceedings Article

Efforts to Realize a Sustainable City of Palembang by implementing Ideal Green Open Space Regulations and Constraints

Khalisah Hayatuddin, Febrina Rani

The green open space (RTH) is an effort to actualize a healthy, comfortable, beautiful, productive and sustainable city. Palembang is one of many cities that lack of this green open space. This study uses a type of normative juridical research. The approach problems in this study include the statute...

[+ Article details](#)

[+ Download article \(PDF\)](#)

Part of **SPRINGER NATURE**

[PROCEEDINGS](#) | JOURNALS | BOOKS

Search

Series: [Advances in Social Science, Education and Humanities Research](#)

Proceedings of the First International Conference on Progressive Civil Society (ICONPROCS 2019)

PREFACE

On behalf of the organizing committee, it gives me great pleasure in welcoming you to the 1st International Conference on Southeast Asia Studies (IconProcs 2019) which is held in Universitas Ahmad Dahlan, Yogyakarta, Indonesia, 19th February 2019.

This conference marks a historic occasion for two reasons. Firstly, it is intended to answer the need of discussing how to strengthen the progressive civil society in Asia countries, among the academicians, researchers, practitioners, students, and other groups who have similar interests. The second reason is that this is the first time for UAD Yogyakarta Indonesia hosting this conference, which is aimed to heighten networking and collaboration among participants.

We are honored to carry out the activities in this conference. We look forward to welcoming you all: the keynote speaker, all invited speakers, co-hosts, researchers, academics, all speakers in the parallel sessions and all participants. We are certain that your presence, bringing together your expertise, vision, knowledge, and experience will help us consolidate our ideas, thoughts and help us pave the way into the future.

We certainly cannot achieve what we do without your support. There are more than 200 abstracts which were submitted to this conference. Our local organizing committee has put in place an interesting scientific program, with

lectures by keynote and invited speakers from the region and beyond, panel session speakers to provide us an insight into the cutting-edge developments in South-East Asia region.

Throughout this conference, I ask that you stay engaged, keep us proactive, and help us shape the future of discussing how to strengthen the progressive civil society in Southeast Asia countries.

We look forward to your support to make this conference a success. My thanks go out to all of you.

Thank you very much

Maraming salamat

Terima kasih banyak.

Dōmo arigatō gozaimas

Wassalamualaikum Warahmatullahi Wabarakatuh

The Editors

R.A. Noer Doddy Irmawati, Associated Professor, Universitas Ahmad Dahlan, Yogyakarta, Indonesia

Dwi Sulisworo, Professor, Universitas Ahmad Dahlan, Yogyakarta, Indonesia

Estrella Arroyo, Professor, University of Saint Anthony, Camarines Sur, Philippines

Ikuya Tokoro, Professor, Research Institute for Languages and Cultures of Asia and Africa, Tokyo University of Foreign Studies, Japan

Rully Charitas Indra Prahmana, Senior Lecturer and Researcher, Universitas Ahmad Dahlan, Yogyakarta, Indonesia

Ahmad Azhari, Lecturer and Researcher, Universitas Ahmad Dahlan, Yogyakarta, Indonesia

Atlantis Press

Atlantis Press – now part of Springer Nature – is a professional publisher of scientific, technical & medical (STM) proceedings, journals and books.

We offer world-class services, fast turnaround times and personalised

Correlation Between Teaching Readiness with Math Anxiety of Primary Pre-Service Teacher

Mukti Sintawati
 Department of Primary School Teacher Education
 Universitas Ahmad Dahlan
 Yogyakarta, Indonesia
 mukti.sintawati@pgsd.uad.ac.id

Ginjar Abdurrahman
 Department of Informatics
 Universitas Muhammadiyah Jember
 Jember, Indonesia
 abdurrahmanginjar@gmail.com

Abstract— The purpose of this study was to find out: 1) Readiness to teach mathematics of primary pre-service teacher in semester 6 of the academic year 2017/2018, 2) level of math anxiety of primary pre-service teacher in semester 6 of the academic year 2017/2018, and 3) is there a relationship between student teaching readiness towards math anxiety?. This research is correlation research. The population of this study was 6th-semester students at the primary preservice teacher of Ahmad Dahlan University. The population of this study was 300 students with a sample of 169 students. The determination of the number of samples refers to the krejcie table. The sample is taken by simple random sampling technique. Data collection was done using the math anxiety questionnaire and the microteaching assessment sheet. Data were analyzed by the Spearman Correlation test. The results of this study indicate that: 1) Readiness to teach mathematics of primary pre-service teacher is at a low level, 2) level of math anxiety of primary pre-service teacher is at a high level, and 3) There a negative relationship between the level of math anxiety and the level of mathematics teaching readiness of primary pre-service teacher with a value of $r = -0,677$.

Keywords—math anxiety, mathematics, teacher

I. INTRODUCTION

The teacher in the learning field takes an important role. The teacher is the one that designed learning and developing the talents and potential of the student so it will create the output which has quality resources. The professional teacher is a teacher who has competences as a teacher dan has full of dedication to the profession.

The professional teacher has good teaching readiness before teaching the students. The teaching readiness is needed in order to prepare the teacher and the learning media before teaching the students. According to Aryani (2014) in a planning process, the obstacles experienced by the teacher are in the arranging of a lesson plan, developing of a lesson plan, and difficulties in the preparing learning media. The problems which often happen in the arranging lesson plan is the difficulties in the preparing learning media which appropriate with the standard process accommodate the students to exploration, elaboration, and confirmation (Utami: 2012). In the learning process, the obstacles experienced by the teacher are difficulties to get the student's interest to ask, limited time, complicated preparation, management class

of the teacher, many students who late in submitting the task. Whereas in the evaluation activity the obstacles experienced by a teacher are in arranging the learning outcomes assessment instrument and the mechanism for evaluating student learning outcomes (Ningsih: 2012).

Besides that, difficulties, in fact, not every teacher has a teaching readiness. It can be seen from the unsatisfactory results of teacher competency tests. The average competency test results of each province can be interpreted in figure 1.

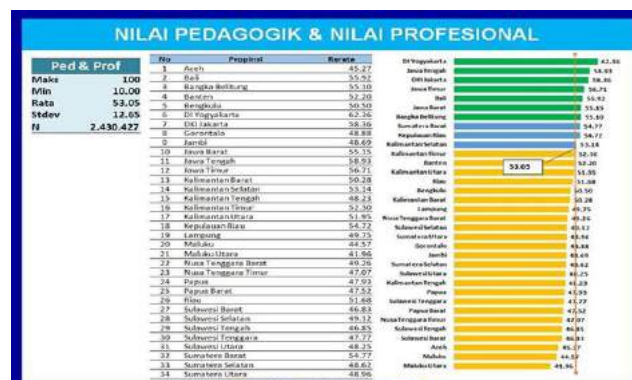


Fig. 1. Teacher Competency Test result in 2015

Department of Primary School Teacher Education (PGSD) students are a pre-service teacher who prepared to be a primary school teacher. The primary school teacher is not an easy profession. In the learning process, the teacher must have a good quality, ways, or teaching method, management, and mastery of material, physical appearance, and personality. The knowledge or mastery and management material are learned in university. It is must be mastered for the PGSD students before teaching the primary students so they can deliver the material in an appropriate way or method. One of the materials they have to master is mathematics. But in fact, they are still many PGSD students which unmastered the Math material. It can be seen according to the results of the final exam in the advanced mathematics course. More than 50% of the students got a score under 60.

Besides the material aspects, the students also have difficulties in preparing the learning process. it can be shown from the lesson plan result product of the students in the advanced mathematics course in primary school.

More than 30% of students still find difficulties in determining the indicator of defined KD (*Basic competencies*). More than 60% of students still find the difficulties in determining the appropriate method of the material, and also difficulties in the implementation of the learning step of the chosen method.

The unreadiness of the students in teaching from the material or learning sides is caused by many factors. One of the factors is math anxiety. Math anxiety is nervous or afraid of mathematics. Math anxiety is defined as a depressed feeling and worries when someone is related to numerical manipulation and solving mathematical problems in daily life and academic purposes (Tobias, 1993). Math anxiety is a feel of students' fear in facing mathematics (Sintawati, 2016). Math anxiety the situation faced by someone when encountering mathematical problems (Wahid, Yusof, & Razak, 2014).

Math anxiety is found not only in school students but also in a college student at university. Khatoon & Mahmood (2010) states that Math anxiety mathematics was found in students since elementary schools, high schools, to college level. It can happen due to the increasing difficulty of the mathematics material had been studied.

Math anxiety is also experienced by students who will teach mathematics. It can be shown in the Boyd, etc research, which give the conclusion that 40% of the students feel worried when teaching mathematics (Boyd, Foster, & Smith, 2014). The same results were also obtained in Brown & Moyer's study, which gave the conclusion that teacher mathematics anxiety consistently shows that pre-service primary school teachers have a higher anxiety level than students in other departments (Brown & Moyer-Packenham, 2011).

Math anxiety in the pre-service teacher is interpreted by Dzulfikar as a worry of students when they face a mathematics test, when do in the mathematics group and when teaching mathematics (Dzulfikar, 2016). While Peker defined Math anxiety as an anxiety feel and depressed which experienced by the teacher or pre-service teacher when they teach about the concept, theory, formula, or mathematical problem solving (Peker, 2009). Moreover, Math anxiety also can cause pain in the body. Lyons & Beylock find that Math anxiety has an effect as equal as a pain experienced by our body for other reasons (Lyons & Beilock, 2012)

Cooke etc states that Math anxiety can be identified from 4 aspects: mathematics knowledge/understanding, somatic, cognitive, dan attitude (Cooke, Cavanagh, Hurst, & Sparrow, 2011). Mathematics knowledge aspect is related to the knowledge of mathematics theory, such as the thought that they unmastered the mathematics theory or material. Somatic aspects are related to changes in body / physical condition, such as the appearance of feeling tense, stomachache, sweating, trembling or rapid heartbeat. Cognitive aspects are related to changes in a person's cognitive when dealing with mathematics, such as not being able to think clearly or forgetting things that they can usually remember. Attitude aspects relate to attitudes such as the emergence of an insecurity sense to do what is asked or reluctant to do so. These aspects are

indicators for developing mathematics anxiety instruments for students as a pre-service mathematics teacher. Mahmood and Khatoon mention the indicators of mathematics anxiety experienced by someone, that is: (a) Difficult to be instructed to do mathematics test, (b) avoiding math classes, (c) feeling some physical pain, dizziness, fear, and panic, (d) unable to do math exercises (Mahmood & Khatoon, 2011). Furthermore, Paul classifies math anxiety in four categories that are high math anxiety, moderate math anxiety, low math anxiety, and having no math anxiety (Paul, 2014).

Based on the math anxiety understanding, it can be concluded that math anxiety in pre-service elementary school teachers is anxiety feeling, tension, or nervous in teaching mathematics that can be identified into four aspects, namely knowledge, somatic, cognitive, and attitude.

Math anxiety toward students has a negative impact when they are teaching. It is based on research conducted by Cooke & Hurst which gives the conclusion that math anxiety can cause inactivity of students to develop their competencies and tend to avoid mathematics activities (Cooke & Hurst, 2012). The same thing was expressed by Choppin who says that teachers who have math anxiety tend to do learn by relying on textbooks that focus on basic skills and minimal conducting class discussion activities (Choppin, 2011). Research conducted by Cooke & Hurst (2012) states that math anxiety affects student candidates in two ways. First, through the desire of pre-service teachers to develop mathematics competencies and second, through their desire to apply their knowledge through teaching activities in the classroom. This math anxiety can cause inactivity of students as a pre-service teacher to develop their competencies and tend to avoid mathematics activities. This math anxiety can also influence their success in math tests or exams. Choppin (2011) found that teachers with math anxiety relatively relied on textbook-based teaching that focuses on basic skills and minimal class discussion activities.

The research related to mathematics anxiety has consistently shown that pre-service primary school teachers have a higher level of anxiety than students in other majors (Brown & Moyer., 2011). Based on the research conducted by some of these researchers, it shows that math anxiety plays a role in the students' readiness in teaching, therefore this study is conducted to determine the relevance of math anxiety to the students' readiness in teaching because there is no research conducted among primary school education in knowing the relevance of math anxiety toward students' readiness.

II. RESEARCH METHODS

A. Teaching Readiness

This research is a correlative study. In this study, the researcher wants to know the relationship between the variables studied, namely the variable of math anxiety level with the readiness to teach mathematics among primary school education UAD students.

The completing result of the math anxiety questionnaire and the teaching readiness assessment sheet are analyzed as a whole as well as each aspect based on

the assumption of a normal curve, i.e. compared with the ideal score. The criteria for an ideal assessment of math anxiety and teaching readiness can be seen in Table I.

TABLE I. LEVEL FOR ASSESSMENT

No	Score Range	Criteria
1	$X > (M_i + 1.5SD_i)$	Very High/Very Ready
2	$M_i < X < (M_i + 1.5SD_i)$	High/ Ready
3	$(M_i - 1.5SD_i) < X < M_i$	High Enough/ Ready Enough
4	$X < (M_i - 1.5SD_i)$	None/Not ready

information :
 X = total score of student,
 Mi = ideal average,
 SDi = ideal standard deviation

Before testing to answer the problem statement, there are several assumption tests that must be fulfilled first. Test assumptions that must be done are normality test and linearity test. After the classical assumptions are fulfilled, then the hypothesis is tested to answer the problem statement. To test the hypothesis, a correlation analysis between math anxiety level variables was performed with the Spearman test. This data analysis technique is used to test the hypothesis using the help of IBM SPSS Version 24 by looking at p-value. The hypothesis is accepted if the p-value is less than 0.05.

III. RESULT AND DISCUSSION

A. Teaching Readiness

Based on the data analysis of all aspects of students' readiness in teaching mathematics, it is found that the average score of mathematics teaching readiness among primary school education UAD students are 189, and it is in the medium readiness level. The description of teaching readiness data for pre-service primary school teachers is presented in Table II.

TABLE II. DESCRIPTION OF TEACHING READINESS

Description	Ideal score	Empiric score
Average	185.09	189
Standard Deviation	12,82	42
Maximum	315	214
Minimum	63	148

Furthermore, every aspect of mathematics teaching readiness is analyzed to find out which aspects included at very high, high, medium, low and very low levels. The assessment of teaching readiness is assessed from two aspects, lesson plan, and microteaching. The result of the lesson plan and Microteaching assessment are presented in Table III.

TABLE III. RESULTS OF ASSESSMENT OF ASPECTS OF TEACHING READINESS

Aspects	level
Lesson plan	Moderate
Microteaching	Low

Based on the table, the students' readiness in preparing lesson plans is on the ready criteria, while the students' readiness in implementing microteaching is at a low level.

It indicates that the lesson plan prepared by students is good enough and can be used for teaching, but the ability to teach students in the elementary school must still be improved.

Table IV presents a quantitative descriptive data of students' readiness in teaching mathematics in terms of the ability to prepare lesson plans.

TABLE IV. RESULTS OF ASSESSMENT OF ASPECTS OF TEACHING READINESS

Component	Level
Indicator	moderate
Learning objectives	moderate
Development of learning material	Low
Method/strategy	moderate
Activities	Low
Learning resources	Moderate
Evaluation	Moderate

Based on Table IV, it is known that the indicator component is at a moderate level. It shows that students are able to develop indicators according to KI / KD and use operational verbs, and can adjust the allocation of learning time well. The component of learning objectives is at the moderate level. It shows that students can formulate learning objectives according to indicators that are developed, observable, and operational. The component of the development of learning material is at a low level. It shows that students have not been able to develop mathematics learning material that supports the achievement of KD or is not theoretically correct.

In this study, it was found that there are some students who did not develop their own materials or teaching materials, they only use the existing textbooks. In addition, there are students who develop inappropriate materials with learning indicators. The component of the learning method is at a moderate level. It means that students are able to use varied methods and can apply the scientific approach to learning. Component activities are at a low level. It means that the learning steps developed by students are inappropriate with the method used. The stages of the chosen approach have not been seen in the learning steps. The component of learning resources is at a moderate level. It means that students use varied learning resources and the learning resources are appropriate to support the achievement of KD. Component evaluation is at a moderate level. It shows that students can develop assessment tools and guideline according to the indicators.

Based on the data analysis, the result of microteaching practice assessment is at a low level. Table V presents the quantitative descriptive data of student mathematics teaching readiness in terms of microteaching practices

Based on Table V, it is known that the introduction, material mastery, the use of language, and closing components are at a moderate level. In the introduction, students can convey apperception and provide motivation and associate learning material that will be taught with the previous material, ask challenging questions, convey the benefits of well-learned material, convey the abilities to be achieved, and deliver plans for learning activities correctly. The materials mastery component shows that

students can associate material with other relevant or real-life knowledge, present material systematically, and master the material well. The Correct and Appropriate-Used of Language in Learning shows that students can use spoken and written language well, clearly, and correctly. The closing component shows that students can make reflections or draw conclusions, give tests orally or in writing, and carry out the follow-up.

TABLE V. MICRO TEACHING PRACTICE ASSESSMENT RESULT

Components	Level
<i>Introduction</i>	Moderate
<i>Materials Mastery</i>	Moderate
<i>The Implementation of Learning Strategy</i>	Low
<i>Doing Varied Activities</i>	Low
<i>The Used of Learning Media/Learning Source</i>	Low
<i>Student Involvement in Learning</i>	Low
<i>The Correct and Appropriate-Used of Language in Learning</i>	Moderate
<i>Closing</i>	Moderate

Based on Table V, it is known that the implementation of learning strategies, doing varied activities, the use of learning media and the involvement of students are at a low level. The implementation of learning strategies shows that students have not been able to carry out coherent learning, mastering classes, facilitating activities that contain the stages of the approach or strategy chosen in the lesson plan, and implementing learning that enables positive habits to grow. The use of learning source/media and the involvement of students in learning shows students are not yet skilled in using learning source or learning media, involving students in utilizing learning sources and media, and fostering active participation of students. These results are relevant to Nurdiansyah's research (2017) which shows that students have used appropriate learning sources but not all students use learning media when doing the microteaching. The variation activities show that students have not used many variations of movement or sound in the learning process. There are still some students who only teach in front of the class, not going around the class to facilitate the students.

B. Math Anxiety

Based on the data analysis of the overall math anxiety aspects of students, it is found that the average math anxiety score of PGSD UAD students is 52.42. The score is at a high level. The description of student mathematics data can be seen in the following Table VI.

TABLE VI. MATH ANXIETY SCORE

Description	Ideal score	Empiric score
<i>Average</i>	45	52,42
<i>Standard Deviation</i>	10	5,46
<i>Maximum</i>	75	64
<i>Minimum</i>	15	35

The data distribution of students' math anxiety that is very high, high, medium, low and very low levels can be seen in Table VII. Furthermore, the descriptive quantitative math anxiety students' data in terms of the four math anxiety aspects can be seen in Table VIII.

Reviewed from each aspect in table VIII, it is known that the knowledge aspect has 15.29 average score and it is at a high level. The result indicates that knowledge of mathematical concepts that students have has an impact on student anxiety levels. High levels of math anxiety on the knowledge aspect also show that students are not sufficiently mastered mathematics material or that there is mathematics material in elementary schools that are not mastered by students. This is thought to be the cause of the students' grades in mathematics courses that are less than satisfactory. This is in line with the opinion of Wondinu et al who states that anxiety in the face of mathematics will affect mathematical abilities and achievements (Wondimu, Alexander, K, & V.D.W, 2012).

TABLE VII. DISTRIBUTION OF MATH ANXIETY DATA

Math Anxiety Level	F	%
<i>Very High</i>	22	13,02
<i>High</i>	97	57,39
<i>Medium</i>	21	12,43
<i>Low</i>	23	13,61
<i>Very Low</i>	6	3,55
Total	169	100

TABLE VIII. DISTRIBUTION OF MATH ANXIETY DATA

Aspect	Average Score	Level
<i>Knowledge</i>	15,29	High
<i>Somatic</i>	13,50	High
<i>Cognitive</i>	10,6	High
<i>Attitude</i>	13,01	Moderate

The second aspect is the somatic aspect which has 13.50 average score and it is at a high level. It shows that students often feel several changes in their body such as heart palpitations, nervousness, tension, or have a stomachache when teaching mathematics. The cognitive aspects have 10.60 average scores and it is at a high level. It shows that students often forget math material or have difficulty to focus while they are teaching. In addition, students suddenly forget the learning syntax or skip some stages of learning even though the syntax is already in the lesson plan. The attitude aspect has 13.01 average score and it is at a moderate level. It shows that students sometimes are not confident in teaching mathematics material and sometimes choose to teach subjects other than mathematics.

From the results and discussion, it is known that students still have mathematics anxiety when they are teaching mathematics. It requires special attention because students who have math anxiety can pass it on to other students. As expressed by Sparks that teachers who have math anxiety, contribute to growing math anxiety to their students (Sparks, 2011).

C. The Relationship Between Math Anxiety and Teaching Mathematics Readiness of PGSD UAD Students

Before analyzing the research data, the research data must be tested for feasibility analysis first. The results of the normality test and linearity test are as follows:

a) Normality and Linearity Test

The normality test result using the Kolmogorov Smirnov test with the help of SPSS presents the following output.

TABLE IX. KOLMOGOROV SMIRNOV TEST OUTPUT

		math anxiety	The readiness to teach math
N		171	171
Normal Parameters ^b	Mean	36.07	179
	Std. Deviation	4.411	4.445
Most Extreme Differences	Absolute	.067	.068
	Positive	.064	.068
	Negative	-.067	-.065
Test Statistic		.067	.068
Asymp. Sig. (2-tailed)		.057 ^c	.054 ^c
a. Test distribution is Normal.			
b. Calculated from data.			
c. Lilliefors Significance Correction.			

The result of the math anxiety data normality test in Table IX shows that p-value = 0.057, which means p-value > 0.05. So, based on these calculations it can be stated that the sample comes from a population that is normally distributed.

The result of the normality test of students' readiness in teaching mathematics in table 8 shows that p-value = 0.054, which means p-value > 0.05. So, based on these calculations it can be stated that the sample comes from a population that is normally distributed.

b) Linearity test

The linearity test using the Ramsey test presents Fcount that is 0,000147. Based on the comparison of Fcount and Ftable, obtained Ftable = 3.021 > Fcount = 0,000147 which is 0.325 then the form is a linear model.

c) Hypothesis test

After the sample data were analyzed using Spearman correlation test using SPSS 17.0, p-value = 0,000 which is showed that there is a relationship between the math anxiety level and the readiness in teaching mathematics of PGSD UAD students. r value is -0,677, it indicates a strong level of relationship. And there is a negative sign (-), showing the nature of the relationship in the opposite direction, which means that if the level of readiness in teaching mathematics of PGSD UAD students rises, the math anxiety level falls, whereas if the level of readiness in teaching mathematics of PGSD UAD students falls, then the math anxiety level rises. The result of the correlation test using SPSS can be seen in Table X.

TABLE X. CORRELATION TEST RESULT

Correlations				
			teaching readiness	math anxiety
Spearman's rho	teaching readiness	Correlation Coefficient	1.000	-.677**
		Sig. (2-tailed)	.	.000
		N	169	169
	math anxiety	Correlation Coefficient	-.677**	1.000
		Sig. (2-tailed)	.000	.
		N	169	169

** . Correlation is significant at the 0.01 level (2-tailed).

The negative sign indicates the relationship in the opposite direction, which means that the higher the teaching readiness, the lower the math anxiety experienced by students in teaching. This is in line with the research conducted by makur & prahmana (2015) which states low understanding of the lessons causes math anxiety.

The level of math anxiety on the knowledge aspect is at a low level indicating that students still do not master math material, therefore students need to read a lot and practice working on elementary school math questions. This is needed so that math anxiety in their students can be reduced and does not prevent students from becoming professional teachers. Research conducted by Juhrani and Faisal (2016) also shows that teacher anxiety in teaching mathematics decreases based on teaching experience.

IV. CONCLUSION

From the result and discussion of this study, it can be concluded that: The mathematics teaching readiness among primary school education UAD students as a whole is at a moderate level. The readiness to teach mathematics of PGSD UAD students in terms of two aspects, that are the ability of students in preparing mathematics learning RPP and the practice of teaching mathematics. the ability of students to develop mathematics learning RPP is at a moderate level while the practice of teaching mathematics is at a low level. Overall, students have high levels of math anxiety. Three aspects are at a high level, that our knowledge, somatic, and cognitive aspect. The attitude aspect is at a moderate level. There is a negative relationship between the level of math anxiety students and the readiness to teach mathematics of PGSD UAD students with r value is -0.677.

Considering the importance of mathematics in Elementary Schools, students need to be given provision of mathematics material mastery in Elementary Schools, as well as the opportunity to practice teaching mathematics both at university and directly in Primary Schools. The level of math anxiety on the knowledge aspect is at a moderate level indicating that students still cannot master the math materials, therefore students need to read a lot and practice doing the exercises. It is very necessary, so the students' math anxiety can be reduced and it does not inhibit the students to become a professional teacher.

ACKNOWLEDGMENT

This work is supported by Lembaga Penelitian dan Pengabdian Kepada Masyarakat Universitas Ahmad Dahlan. The authors also gratefully acknowledge the helpful comments and suggestions of the reviewers, which have improved the presentation.

REFERENCES

[1] A. Cooke, & C. Hurst, "Mathematics Competency and Situational Mathematics Anxiety: What Are The Links and How Do These Links Affect Teacher Education Programs?. the joint Australian Association for Research in Education and Asia-Pacific Educational Research Association Conference (pp. 1-8). Sidney: AARE (Australian Association for Research in Education), 2012.

- [2] A. Cooke, R. Cavanagh, C. Hurst, & L.Sparrow, "Situational Effects of Mathematics Anxiety in Pre-service Teacher Education", AARE International Research in Education Conference, (pp. 1-14). Melbourne, 2011.
- [3] A. Dzulfikar, "Kecemasan Matematika Pada Mahasiswa Calon Guru Matematika (Pre-Service Mathematics Teachers' Math Anxiety)", *Jurnal Matematika dan Pendidikan Matematika*, vol. 1(1), pp. 34-44, 2016.
- [4] A. P. Makur, & R. C. I. Prahmana, "Penyebab Kecemasan Matematika Mahasiswa Calon Guru Asal Papua", *Jurnal Elemen*, vol. 1(1), pp. 1-12, 2015.
- [5] A. W. Brown, & P. Moyer-Packenham, "Elementary Pre-service Teachers: Can They Experience Mathematics Teaching Anxiety without Having Mathematics Anxiety?" *IUMPST: The Journal*, vol. 5, pp. 1-14, 2011.
- [6] J. Choppin, "The Role of Local Theories: Teacher Knowledge and Its Impact on Engaging Students with Challenging Task". *Mathematics Education Education Research Journal*, vol. 5, pp. 5-25, 2011.
- [7] L. Lyons, & Beilock, "When Math Hurts: Math Anxiety Predicts Pain Network Activation in Anticipation of Doing Math. *PlosOne*", vol. 7 (10), pp. 1-6, 2012.
- [8] M. Aryani, "Studi Kasus Penerapan Pendekatan Saintifik Pada Guru-Guru Di Sma N 1 Bawang (Studi Pada Tahun Ajaran 2013/2014)", *Economic Education Analysis Journal*, vol. 3, pp. 558-563, 2014.
- [9] M. Paul, "Exploring Mathematics Anxiety: Mathematics Students' Experiences", *Mediterranean Journal of Social Sciences*, vol.5 (1), pp. 283- 295, 2014.
- [10] M. Peker, "Pre-Service Teachers: Teaching Anxiety about Mathematics and Their Learning Styles", *Eurasia Journal of Mathematics, Science, & Technology Education*, vol. 5 (4), pp. 335-345, 2009.
- [11] M. Sintawati, "Helping students with mathematics anxiety. International Conference On Education, Technology, And Sciences 2016", Jambi: FKIP Universitas Jambi, 2016. pp. 165-170.
- [12] N. W. Utami and Jailani, "Permasalahan Penyusunan Perangkat Pembelajaran Matematika", Makalah disajikan pada seminar Nasional Matematika dan Pendidikan Matematika pada 10 November 2012.
- [13] N. Ningsih, "Hambatan Guru Pendidikan Kewarganegaraan Dalam Pelaksanaan Evaluasi Pembelajaran Di SMA 1 Saden". *Jurnal Citizenship*, vol. 1, pp. 123-132, 2012.
- [14] R. Nurdiansyah, Turmudi, & A. Jupri, Analisis Implementasi Standar Proses pada Mikro Teaching Mahasiswa Pendidikan Matematika", *Unnes Journal of Mathematics Education*, vol. 6, pp. 277-286, 2017.
- [15] S. Mahmood, & T. Khatoon, Development and Validation of the Mathematics Anxiety Scale for Secondary and Senior Secondary School Students, *British Journal of Art and Social Sciences*, vol. 2 (2), pp. 169-180, 2011.
- [16] S. N. Wahid, Y.Yusof, & M. R. Razak, "Math anxiety among students in higher education level", *Procedia Social and Behavioral Sciences*, vol. 123, pp. 232-237, 2014.
- [17] S. Sparks, "Researchers probe cause of math anxiety. *Education Week*, pp. 30-31, 2011.
- [18] S. Tobias, *Overcoming math anxiety*, New York, Norton Company, 1993.
- [19] T. Khatoon, & S. Mahmood, "Mathematics Anxiety Among Secondary School Students in India and its Relationship to Achievement in Mathematics", *European Journal of Social Science*, vol. 16 (1), pp. 75-86, 2010.
- [20] W.Boyd, Foster, A., & J. Smith," Feeling Good about Teaching Mathematics: Addressing Anxiety amongst Pre-Service Teacher", *Creative Education*, vol. 5, pp. 207-217, 2014.